

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

APPLICATION FOR PERMIT TO DRILL

1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		5. MINERAL LEASE NO: ST UO 1194A	6. SURFACE: State
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A	
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore, LP		8. UNIT or CA AGREEMENT NAME: Unit 891008900A	
3. ADDRESS OF OPERATOR: P.O. Box 173779 Denver Colorado 80217-3779		9. WELL NAME and NUMBER: NBU 921-34H SWD	
PHONE NUMBER: 720-929-6226		10. FIELD AND POOL, OR WILDCAT: Natural Buttes Field	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 625464X 4427901Y 39.993873 2141' FNL & 767' FEL LAT 39.993947 LON -109.530369 (NAD 27) AT PROPOSED PRODUCING ZONE: N/A -109.530373		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE Sec. 34 T 9 S - R 21 E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 15.6 miles east of Ouray, Utah		12. COUNTY: Uintah	13. STATE UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 767'	16. NUMBER OF ACRES IN LEASE: 1292.39	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 75'	19. PROPOSED DEPTH: 2200'	20. BOND DESCRIPTION: RLB0005237	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5043' GR	22. APPROXIMATE DATE WORK WILL START: ASAP	23. ESTIMATED DURATION: 10 days	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
12 1/4"	9 5/8" J-55 36#	2200'	Premium Cement 140 sx 3.82 11.0
			Premium Cement 360 sx 1.18 15.6

ATTACHMENTS

25. VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- | | |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

NAME (PLEASE PRINT) Kevin McIntyre TITLE Regulatory Analyst I

SIGNATURE [Signature] DATE July 23, 2008

(This space for State use only)

Approved by the
Utah Division of
Oil, Gas and Mining

RECEIVED

JUL 25 2008

DIV. OF OIL, GAS & MINING

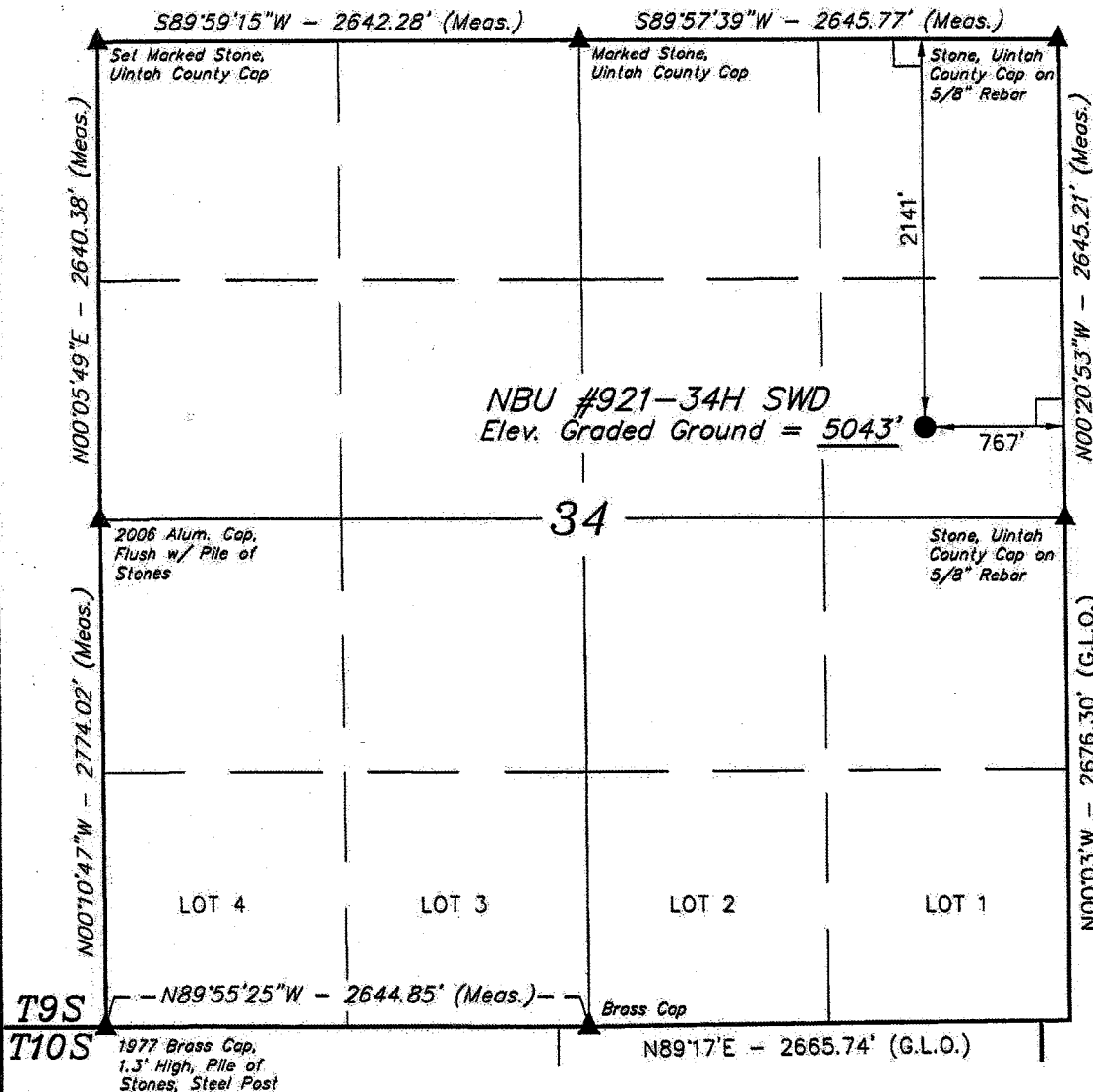
API NUMBER ASSIGNED: 43-047-40254

APPROVAL:

Date: 11-24-08

By: [Signature]

T9S, R21E, S.L.B.&M.



LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(NAD 83)
 LATITUDE = 39°59'38.08" (39.993911)
 LONGITUDE = 109°31'51.81" (109.531058)
 (NAD 27)
 LATITUDE = 39°59'38.21" (39.993947)
 LONGITUDE = 109°31'49.33" (109.530369)

Kerr-McGee Oil & Gas Onshore LP

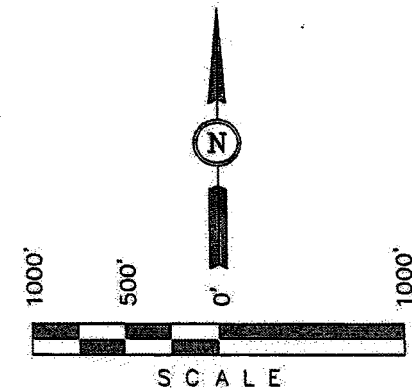
Well location, NBU #921-34H SWD, located as shown in the SE 1/4 NE 1/4 of Section 34, T9S, R21E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

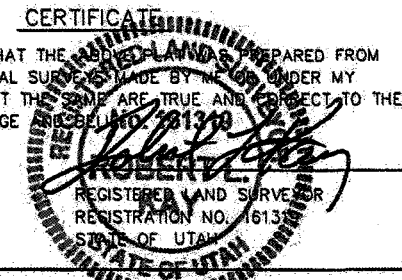
BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE LAND WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE



UINTAH ENGINEERING & LAND SURVEYING
 85 SOUTH 200 EAST - VERNAL, UTAH 84078
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 1-4-07	DATE DRAWN: 1-11-07
PARTY D.K. M.B. K.G.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE Kerr-McGee Oil & Gas Onshore LP	

**NBU 921-34H SWD
SE/NE, SEC. 34, T9S, R21E
UINTAH COUNTY, UTAH
UTSTUO-1194-A-ST**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers:

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1485'
Base of Upper Confining	1641'
Top of Lower Confining	1955'
Base of Lower Confining	2034'
TD	2200'

2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1485'
Water	Base of Upper Confining	1641'
Water	Top of Lwr Confining	1955'
Water	Base of Lwr Confining	2034'
Gas	N/A	
Other Minerals	N/A	

3. Pressure Control Equipment (Schematic Attached)

Not Applicable. Please refer to the attached Drilling Program.

4. Proposed Casing & Cementing Program:

Please refer to the attached Drilling Program.

5. Drilling Fluids Program:

Air Mist/Aerated Water. Please refer to the attached Drilling Program.

6. Evaluation Program:

Please refer to the attached Drilling Program.

7. Abnormal Conditions:

None Anticipated.

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

Please refer to the attached Drilling Program.

10. **Other Information:**

Please refer to the attached Drilling Program.

NBU 921-34H SWD
SENE SEC 34-T9S-R21E
Uintah County, UT
ST UO 1194A

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Refer to Topo Map A for directions to the location.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

The existing road for the NBU 921-34H will be utilized. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. Planned Access Roads:

No new access road is proposed. Refer to Topo Map B for the location of the existing access road.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

3. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

The following guidelines will apply if the well is productive.

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Carlsbad Canyon, standard color number 2.5Y 6/2.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

No new pipeline, as this is a SWD location. No TOPO D attached.

5. Location and Type of Water Supply:

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32, T4S, R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

6. Source of Construction Materials:

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit / walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

A plastic reinforced liner and felt will be used, it will be a minimum of 20 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

Any produced water from the proposed well will be contained in a water tank and will then be hauled By truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E. CIGE 112D SWD – SESE, SECTION 19, T9S, R21E, NBU 47N2 SWD – SESW, SECTION 30, T10S, R22E, NBU 159 SWD – NESW, SECTION 35, T9S, R21E, NBU 347 – NWSW, SECTION 11, T10S, R22E, Ouray #1 SWD – NENE SECTION 1, T9S, R21E, Pipeline Facility Sec. 36, T9S, R20E, Goat Pasture Evaporation Pond SW/4 Sec. 16, T10S, R22E, Bonanza Evaporation Pond Sec. 2, T10S, R23E

8. **Ancillary Facilities:**

None are anticipated.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Form 9 shall be submitted.

10. Plans for Reclamation of the Surface:

Producing Location:

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

A plastic, nylon reinforced liner will be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water (s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

Dry Hole/Abandoned Location:

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

11. Surface/Mineral Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

12. Other Information:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey has been completed and will be submitted.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it Within 460' of any non-committed tract lying within the boundaries of the Unit.

13. Lessee's or Operators's Representative & Certification:

Kevin McIntyre
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO BOX 173779
Denver, CO 80217-3779
(720) 929-6226

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435)781-7018

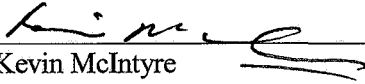
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by State Surety Bond #RLB0005237.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.



Kevin McIntyre
Regulatory Analyst

7/23/2008

Date

Kerr-McGee Oil & Gas Onshore LP

NBU #921-34H SWD

SECTION 34, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 400' TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE EXISTING #921-34H AND THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 46.5 MILES.



KERR-McGEE OIL & GAS ONSHORE LP **DRILLING PROGRAM**

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE July 28, 2008
 WELL NAME NBU 921-34H SWD TD 2,200' MD/TVD
 FIELD Natural Buttes COUNTY Uintah STATE Utah ELEVATION 5,043' GL KB NA
 SURFACE LOCATION SENE SEC. 34, T9S, R21E 2141' FNL & 767' FEL BHL Straight Hole
 Latitude: 39.993947 Longitude: -109.530369 NAD 27
 OBJECTIVE ZONE(S) Bird's Nest (Base of Lower Confining)
 ADDITIONAL INFO Regulatory Agencies: UDOGM (SURF & MINERALS), BLM, Tri-County Health Dept.

GEOLOGICAL FORMATION			MECHANICAL		
LOGS	TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
Catch water sample, if possible, from 0 to 2,200'			12-1/4"	9 5/8", 36#, J55, STC	Air mist Aerated water
	Green River @	1,485			
	Base of Upper Confining @	1,641			
	Top of Lower Confining @	1,955			
	Base of Lower Confining @	2,034			
	Preset f/ GL @				
	2200 MD				

Either open hole or cased hole logs will be run f/TD - surface

Max anticipated
 Mud required
 8.4 ppg



KERR-McGEE OIL & GAS ONSHORE LP **DRILLING PROGRAM**

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3520	2020	394000
SURFACE	9 5/8"	0 to 2200	36.00	J-55	STC	7.38	1.96	5.68

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE						
LEAD	1200	Prem cmt + 16% Gel + 10 pps gilsonite + .25 pps Flocele + 3% salt BWOC	140	35%	11.00	3.82
TAIL	1000	Premium cmt + 2% CaCl + .25 pps flocele	360	35%	15.60	1.18
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.

ADDITIONAL INFORMATION

Drilling will be done utilizing a small air rig. An air hammer will be utilized to approximately 1000', tripped, and replaced by a tricone which will TD the well.

No BOPE will be utilized other than a rotating head as there is no potential for hydrocarbons. This type of equipment drills all of our existing surface casing presets for our typical Wasatch/Mesaverde development.

DRILLING ENGINEER:

Steve McPherson

DATE:

DRILLING SUPERINTENDENT:

Randy Bayne NBU 921-34H SWD.xls

DATE:

Kerr-McGee Oil & Gas Onshore LP

NBU #921-34H SWD

LOCATED IN UINTAH COUNTY, UTAH
SECTION 34, T9S, R21E, S.L.B.&M.



PHOTO: VIEW OF LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: SOUTHWESTERLY



- Since 1964 -

UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

01 05 07
MONTH DAY YEAR

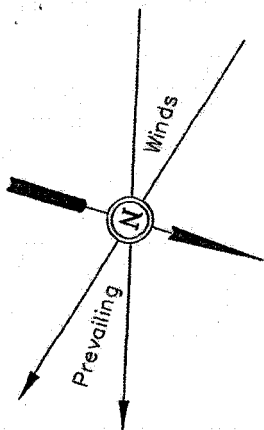
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TAKEN BY: D.K.

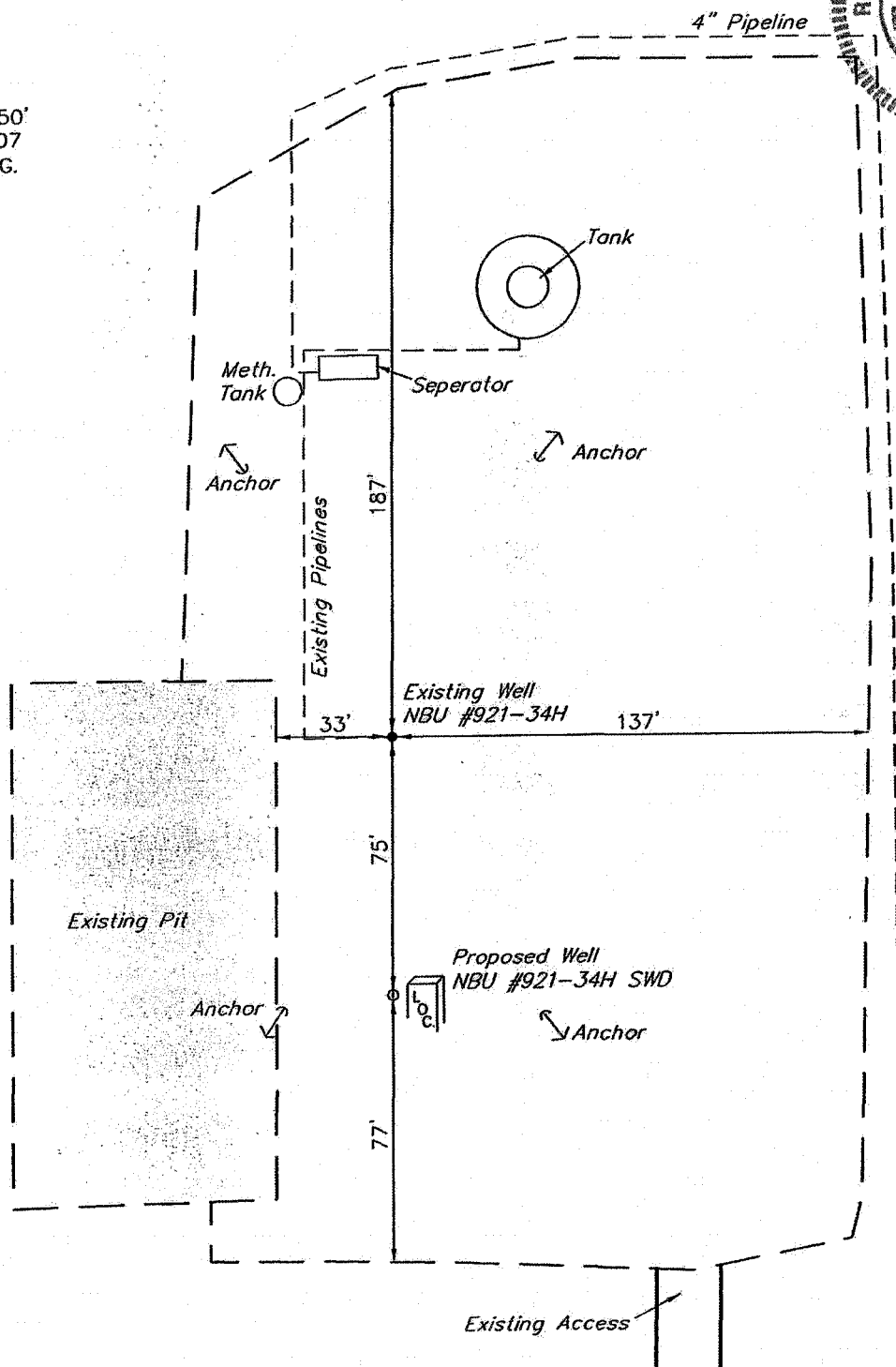
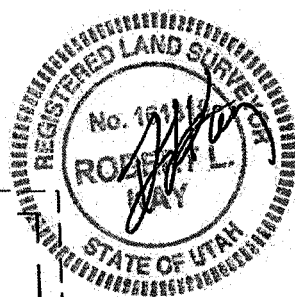
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REVISED: 00-00-00

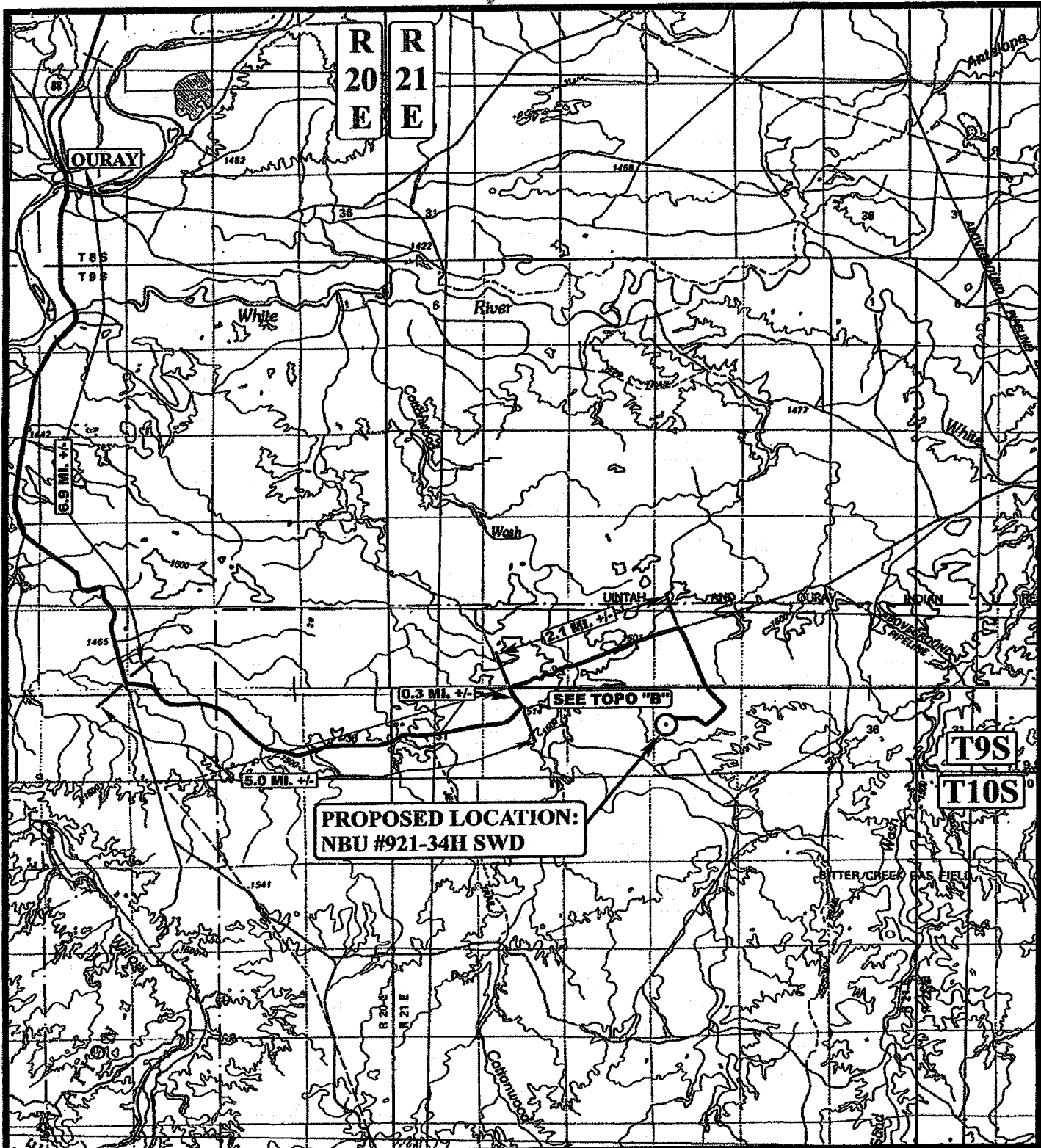
NBU #921-34H SWD
SECTION 34, T9S, R21E, S.L.B.&M.
2141' FNL 767' FEL



SCALE: 1" = 50'
DATE: 1-11-07
Drawn By: K.G.



UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017



LEGEND:

○ PROPOSED LOCATION

N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-34H SWD

SECTION 34, T9S, R21E, S.L.B.&M.

2141' FNL 767' FEL



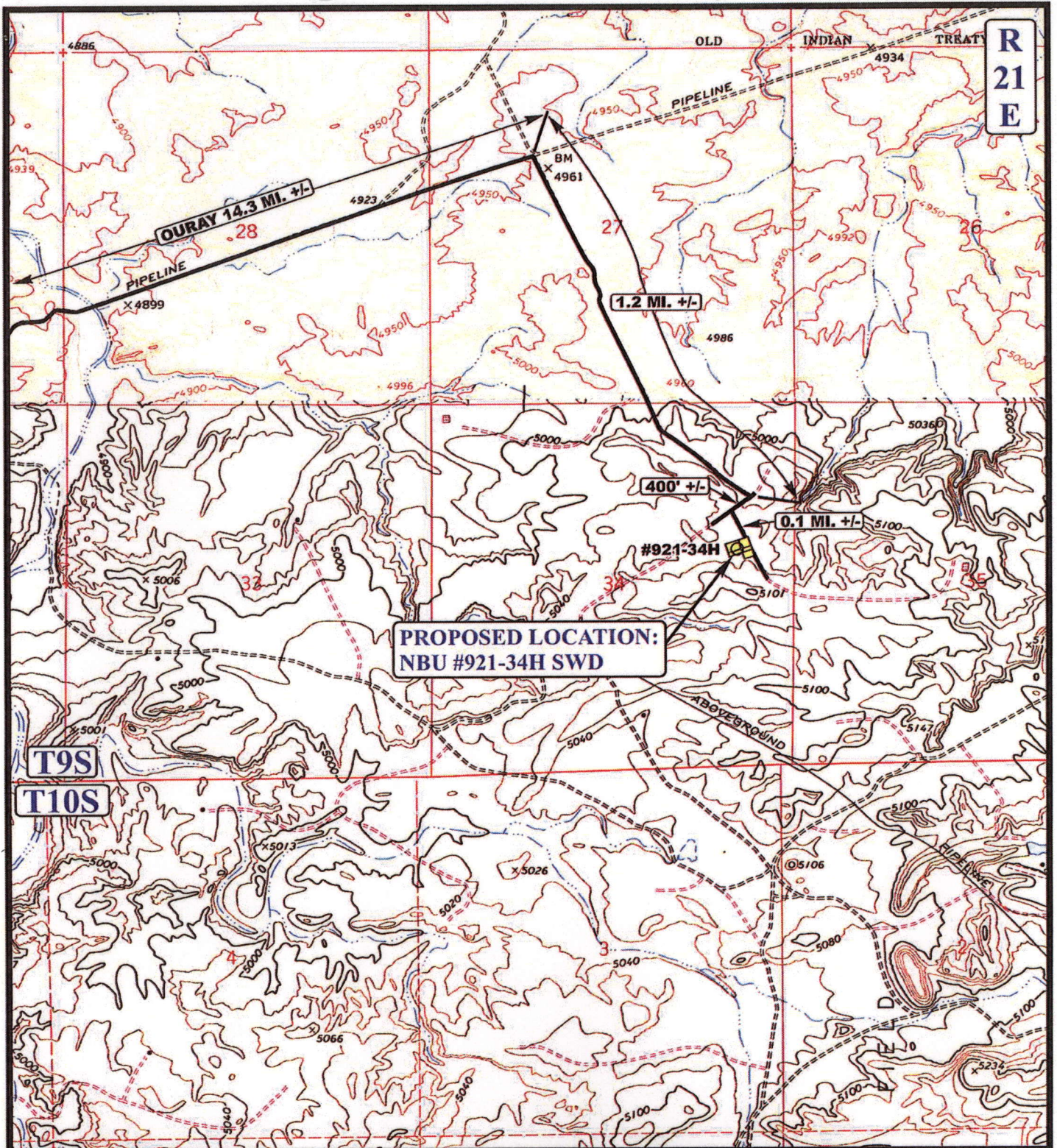
Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
MAP**

01 05 07
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: L.K. REVISED: 00-00-00





LEGEND:

EXISTING ROAD
PROPOSED ACCESS ROAD

N

U
E
L
S

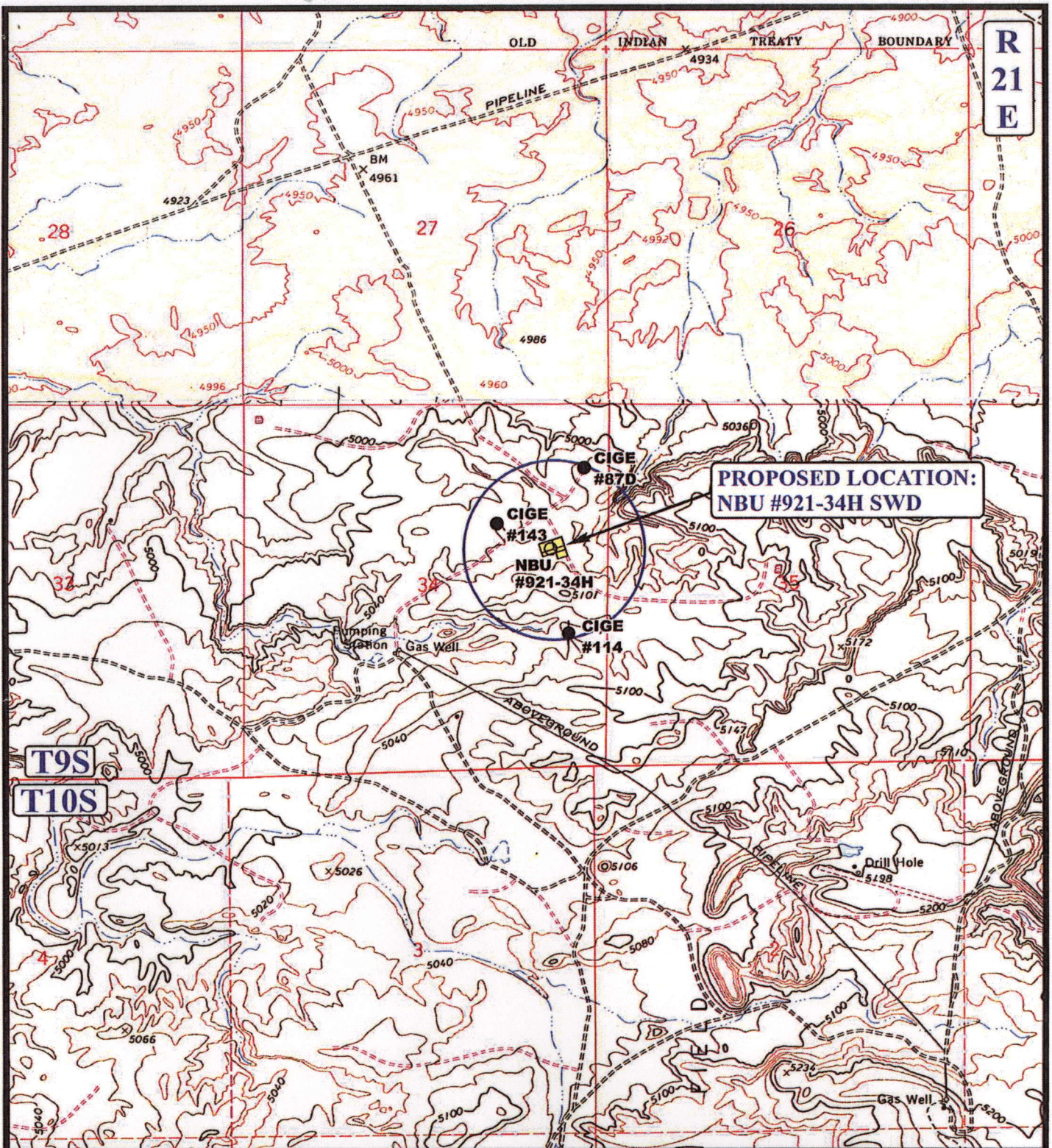
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

01 05 07
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: L.K. REVISED: 00-00-00

B
TOPO



LEGEND:

- | | |
|-----------------|-----------------------|
| DISPOSAL WELLS | WATER WELLS |
| PRODUCING WELLS | ABANDONED WELLS |
| SHUT IN WELLS | TEMPORARILY ABANDONED |

UEIS

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

Kerr-McGee Oil & Gas Onshore LP

NBU #921-34H SWD
SECTION 34, T9S, R21E, S.L.B.&M.
2141' FNL 767' FEL

**TOPOGRAPHIC
MAP**

01 05 07
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: L.K. REVISED: 00-00-00

**C
TOPO**

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 07/25/2008

API NO. ASSIGNED: 43-047-40254

WELL NAME: NBU 921-34H SWD

OPERATOR: KERR-MCGEE OIL & GAS (N2995)

PHONE NUMBER: 720-929-6226

CONTACT: KEVIN MCINTYRE

PROPOSED LOCATION:

SENE 34 090S 210E

SURFACE: 2141 FNL 0767 FEL

BOTTOM: 2141 FNL 0767 FEL

COUNTY: UINTAH

LATITUDE: 39.99387 LONGITUDE: -109.5304

UTM SURF EASTINGS: 625464 NORTHINGS: 4427901

FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /

Tech Review

Initials

Date

Engineering

DKD

9/30/08

Geology

Surface

LEASE TYPE: 3 - State

LEASE NUMBER: ST UO 1194A

SURFACE OWNER: 3 - State

PROPOSED FORMATION: GRRVU

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[] Ind[] Sta[] Fee[]
(No. 22013542)

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit
(No. 43-8496)

☒ RDCC Review (Y/N)
(Date:)

☒ Fee Surf Agreement (Y/N)

☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

R649-2-3.

Unit: NATURAL BUTTES

☒ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

☐ R649-3-3. Exception

☒ Drilling Unit

Board Cause No: 1

Eff Date:

Siting:

☐ R649-3-11. Directional Drill

COMMENTS:

Needs Preside (08-26-08)

STIPULATIONS:

1- STATEMENT OF BASIS
2- OIL SHALE
3- Surface Csg Cont Stop

Application for Permit to Drill

Statement of Basis

9/8/2008

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM		
894	43-047-40254-00-00		GW	S	No		
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD				
Well Name	NBU 921-34H SWD	Unit	NATURAL BUTTES				
Field	NATURAL BUTTES	Type of Work					
Location	SENE 34 9S 21E S 2141 FNL 767 FEL GPS Coord (UTM) 625464E 4427901N						

Geologic Statement of Basis

Kerr McGee proposes to set 2,200' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 1,600'. A search of Division of Water Rights records shows two water wells within a 10,000 foot radius of the center of Section 34. The wells are listed as 200 and 2,640 feet deep and used for oilfield drilling water. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect. Any usable ground water.

Brad Hill

9/8/2008

APD Evaluator

Date / Time

Surface Statement of Basis

The NBU 921-34HSWD is a water disposal well to be drilled on the existing pad of the NBU 921-34H which is a producing gas well. No enlargement is planned to the existing pad. The well will be drilled using an air drill, which will not require a drilling fluid reserve pit. The existing pad is stable and no surface problems should be encountered in drilling the proposed well.

Jim Davis and Kurt Higgins represented SITLA at the site review. They had no concerns regarding the proposal.

Floyd Bartlett

8/26/2008

Onsite Evaluator

Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
	None

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name NBU 921-33F SWD
API Number 43-047-40253-0 **APD No** 893 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 SENW **Sec** 33 **Tw** 9S **Rng** 21E 1762 FNL 1755 FWL
GPS Coord (UTM) **Surface Owner**

Participants

Floyd Bartlett (DOGM), Ramie Hoopes (Kerr McGee), Jim Davis and Kurt Higgins (SITLA), David Kay (ULES), Ben Williams and Pat Rainbolt (UDWR)

Regional/Local Setting & Topography

The NBU 921-33F SWD is a water disposal well to be drilled on the existing pad of the NBU 921-33F which is a producing gas well. No enlargement is planned to the existing pad. The well will be drilled using an air drill, which will not require a drilling fluid reserve pit. The existing pad is stable and no surface problems should be encountered in drilling the proposed well.

Jim Davis and Kurt Higgins represented SITLA at the site review. They had no concerns regarding the proposal.

Surface Use Plan

Current Surface Use

Existing Well Pad

New Road

Miles	Well Pad	Src Const Material	Surface Formation
	Width		

Length

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetland

Flora / Fauna

Existing Well Pad

Soil Type and Characteristics

Erosion Issues

Sedimentation Issues

Site Stability Issues

Drainage Diversion Required

Berm Required?

Erosion Sedimentation Control Required?

Paleo Survey Run?

Paleo Potential Observed?

Cultural Survey Run?

Cultural Resources?

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)
Distance to Surface Water (feet)
Dist. Nearest Municipal Well (ft)
Distance to Other Wells (feet)
Native Soil Type
Fluid Type
Drill Cuttings
Annual Precipitation (inches)
Affected Populations
Presence Nearby Utility Conduits

Final Score

Sensitivity Level

Characteristics / Requirements

Closed Loop Mud Required?

Liner Required?

Liner Thickness

Pit Underlayment Required?

Other Observations / Comments

Floyd Bartlett
Evaluator

8/26/2008
Date / Time

43047402540000 NBU 921-34H SWD

Casing Schematic

Surface

15'

Unita

TOC @
537.

to surf w/ 7%, tail 1215'
* Step ✓

✓ Ship surf. cont.

- 1467' tail
- 1485' Green River
- 1600' ± BMSW
- 1641' Base Upper Confining

- 1955' Top Lower Confining
- 2034' Base Lower Confining

9-5/8"
MW 8.3
Frac 19.3

Surface
2200. MD

Well name:

43047402540000 NBU 921-34H SWDOperator: **Kerr McGee Oil & Gas Onshore L.P.**String type: **Surface**

Project ID:

43-047-40254-0000Location: **Uintah County, Utah****Design parameters:****Collapse**Mud weight: 8.330 ppg
Design is based on evacuated pipe.**Minimum design factors:****Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 106 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,300 ft

Cement top: 537 ft

BurstMax anticipated surface
pressure: 1,936 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,200 psi

No backup mud specified.

Tension:8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)Tension is based on buoyed weight.
Neutral point: 1,929 ftCompletion type is subs
Non-directional string.**Re subsequent strings:**Next setting depth: 9,200 ft
Next mud weight: 11.500 ppg
Next setting BHP: 5,496 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,200 ft
Injection pressure: 2,200 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2200	9.625	36.00	J-55	ST&C	2200	2200	8.796	954.8
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	952	2020	2.122	2200	3520	1.60	69	394	5.67 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & MineralsPhone: (801) 538-5357
FAX: (801) 359-3940Date: September 22, 2008
Salt Lake City, Utah**Remarks:**Collapse is based on a vertical depth of 2200 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

BOPE REVIEW

Kerr-McGee NBU 921-34H SWD API 43-047-40254-0000

INPUT

Well Name

Kerr-McGee NBU 921-34H SWD API 43-047-40254-0000

Casing Size (")

Setting Depth (TVD)

Previous Shoe Setting Depth (TVD)

Max Mud Weight (ppg)

BOPE Proposed (psi)

Casing Internal Yield (psi)

Operators Max Anticipated Pressure (psi)

String 1	String 2		
9 5/8			
2200			
40	2200		
8.4			
500			
3520			
697	#VALUE!	ppg	

Calculations

String 1 9 5/8 "

Max BHP [psi]

.052*Setting Depth*MW = 961

MASP (Gas) [psi]

Max BHP-(0.12*Setting Depth) = 697

MASP (Gas/Mud) [psi]

Max BHP-(0.22*Setting Depth) = 477

BOPE Adequate For Drilling And Setting Casing at Depth?

NO *O.K.* Air Drill to surface shoe with diverter

YES

*Can Full Expected Pressure Be Held At Previous Shoe?

Pressure At Previous Shoe Max BHP-.22*(Setting Depth - Previous Shoe Depth) = 486

Required Casing/BOPE Test Pressure

2200 psi

*Max Pressure Allowed @ Previous Casing Shoe =

40 psi

*Assumes 1psi/ft frac gradient

Calculations

String 2 "

Max BHP [psi]

.052*Setting Depth*MW = #VALUE!

MASP (Gas) [psi]

Max BHP-(0.12*Setting Depth) = #VALUE!

MASP (Gas/Mud) [psi]

Max BHP-(0.22*Setting Depth) = #VALUE!

BOPE Adequate For Drilling And Setting Casing at Depth?

#VALUE!

#VALUE!

*Can Full Expected Pressure Be Held At Previous Shoe?

Pressure At Previous Shoe Max BHP-.22*(Setting Depth - Previous Shoe Depth) = #VALUE!

#VALUE!

Required Casing/BOPE Test Pressure

#VALUE!

psi

*Max Pressure Allowed @ Previous Casing Shoe =

#VALUE!

psi

*Assumes 1psi/ft frac gradient

From: Jim Davis
To: Bonner, Ed; Higgins, Kurt; Mason, Diana
Date: 11/24/2008 12:41 PM
Subject: Kerr McGee SWD approvals

CC: Garrison, LaVonne

I spoke to Kurt Higgins this morning, he said I could go ahead and send the approval em-mail for these wells.

The following wells have been approved by SITLA.

4304740253	NBU 921-33F SWD Kerr-McGee Oil & Gas	Natural Buttes	SENW	33	090S	210E
S	UINTAH					
4304740254	NBU 921-34H SWD Kerr-McGee Oil & Gas	Natural Buttes	SENE	34	090S	
210E	S UINTAH					
4304740255	NBU 921-34L SWD Kerr-McGee Oil & Gas	Natural Buttes	NWSW	34	090S	210E
S	UINTAH					

-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

November 24, 2008

Kerr-McGee Oil & Gas Onshore, LP
P O Box 173779
Denver, CO 80217-3779

Re: NBU 921-34H SWD Well, 2141' FNL, 767' FEL, SE NE, Sec. 34, T. 9 South, R. 21 East,
Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40254.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal Field Office
SITLA



Operator: Kerr-McGee Oil & Gas Onshore, LP

Well Name & Number NBU 921-34H SWD

API Number: 43-047-40254

Lease: ST UO 1194A

Location: SE NE Sec. 34 T. 9 South R. 21 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

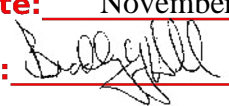
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at: (801) 538-5338 office (801) 942-0871 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.
7. Surface casing shall be cemented to the surface.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9																														
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ST UO 1194A																														
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PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES																														
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																																
TYPE OF SUBMISSION	TYPE OF ACTION																															
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/23/2009 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> ACIDIZE</td> <td><input type="checkbox"/> ALTER CASING</td> <td><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td><input type="checkbox"/> CHANGE TUBING</td> <td><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td><input type="checkbox"/> CHANGE WELL STATUS</td> <td><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td><input type="checkbox"/> DEEPEN</td> <td><input type="checkbox"/> FRACTURE TREAT</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> OPERATOR CHANGE</td> <td><input type="checkbox"/> PLUG AND ABANDON</td> <td><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td><input type="checkbox"/> TUBING REPAIR</td> <td><input type="checkbox"/> VENT OR FLARE</td> <td><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td><input type="checkbox"/> WATER SHUTOFF</td> <td><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td><input checked="" type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td><input type="checkbox"/> OTHER</td> <td>OTHER: _____</td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.																																
<div style="text-align: right;"> Approved by the Utah Division of Oil, Gas and Mining </div>		Date: <u>November 23, 2009</u>																														
<div style="text-align: right;"> By:  </div>																																
NAME (PLEASE PRINT) Danielle Piernot		PHONE NUMBER 720 929-6156																														
SIGNATURE N/A		TITLE Regulatory Analyst																														
		DATE 11/18/2009																														



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047402540000

API: 43047402540000

Well Name: NBU 921-34H SWD

Location: 2141 FNL 0767 FEL QTR SENE SEC 34 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 11/24/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the
Utah Division of
Oil, Gas and Mining**

Signature: Danielle Piernot

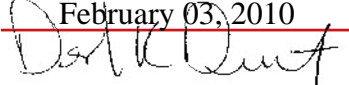
Date: 11/18/2009

Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: November 23, 2009

By: 

RECEIVED November 18, 2009

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
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<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 2/1/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests authorization to change the drilling procedures for this well due to a revised drilling plan. Please see the attached drilling program for additional details. If you have any questions, please contact the undersigned. Thank you.					
Approved by the Utah Division of Oil, Gas and Mining		Date: February 03, 2010 By: 			
NAME (PLEASE PRINT) Danielle Piernot		PHONE NUMBER 720 929-6156			
SIGNATURE N/A		TITLE Regulatory Analyst			
DATE 1/28/2010					

Well name:	43047402540000 NBU 921-34H SWDrev.	
Operator:	Kerr McGee Oil & Gas Onshore L.P.	Project ID:
String type:	Surface	43-047-40254-0000
Location:	Uintah County, Utah	

Design parameters:

Collapse

Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 98 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,300 ft

Cement top: **224 ft**

w/12 8 washout

Burst

Max anticipated surface pressure: 688 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 885 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 1,436 ft

Completion type is subs
Non-directional string.

Re subsequent strings:

Next setting depth: 2,200 ft
Next mud weight: 8.330 ppg
Next setting BHP: 952 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 1,641 ft
Injection pressure: 1,641 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	1641	7	23.00	J-55	ST&C	1641	1641	6.25	362.7

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	710	3270	4.605	885	4360	4.93	33	284	8.60 J

**Approved by the
Utah Division of
Oil, Gas and Mining**

Date: February 03, 2010
By: *Dustin K. Doucet*

Prepared by: Dustin K. Doucet
Div of Oil, Gas & Mining

Phone: (801) 538-5281
FAX: (801) 359-3940

Date: February 2, 2010
Salt Lake City, Utah

7" Casing Shall be Cemented to Surface.

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
Collapse is based on a vertical depth of 1641 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes.
Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.



GEOLOGICAL			MECHANICAL		
LOGS	FORMATION	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
Catch water sample, if possible, from 0 to 1,955'					
			8-3/4"	7", 23#, J55, STC	Air mist Aerated water
	Green River @	1,485			
	Base of Upper Confining @	1,641			
	6 1/4" open hole that a workover rig will drill	>>>: >>			
	Top of Lower Confining @	1,955			
	Preset f/ GL @	1955 MD			

Max anticipated
Mud required
8.4 ppg

Drilling Program Revised 1-13-10.xls
RECEIVED January 28, 2010



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						4360	3270	284000
SURFACE	7	0 to 1641	23.00	J-55	STC	10.29	3.57	4.61

CEMENT PROGRAM

	FT. OF CMT	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
LEAD	841	Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	50	40%	11.00	3.82
TAIL	800	Class "G" + 2% CaCl + .25 pps celloflake	150	40%	15.80	1.15
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints and every third joint to surface.
Thread lock guide shoe.

ADDITIONAL INFORMATION

Drilling will be done utilizing a small air rig. An air hammer will be utilized. Air rig to drill to 1641', run logs, then cement casing, and then RDMOL so a workover rig can come in later and drill the open hole section after WOC.

No BOPE will be utilized other than a rotating head as there is no potential for hydrocarbons. This type of equipment drills all of our existing surface casing presets for our typical Wasatch/Mesaverde development.

ENGINEER:

Robert Miller

DATE: _____

DRILLING SUPERINTENDENT:

NBU 921-34H SWD wells Drilling Program Revised 1-13-10.xls

DATE: _____

RECEIVED January 28, 2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
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PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
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<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/20/2010	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
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	<input type="checkbox"/> PLUG AND ABANDON	
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	<input type="checkbox"/> RECLAMATION OF WELL SITE	
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	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/28 SX READY MIX SPUD WELL LOCATION ON MAY 20, 2010 AT 8:00 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 24, 2010		
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 5/24/2010	

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Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 24, 2010		
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 5/24/2010	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304740254	NBU 921-34H(SWD)		SENE	34	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	17621	5/20/2010			6/7/10	
Comments: MIRU PETE MARTIN BUCKET RIG. GRUVU SPUD WELL LOCATION ON 5/20/2010 AT 8:00 HRS.							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

RECEIVED
MAY 25 2010

ANDY LYTLE

Name (Please Print)

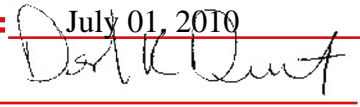
Signature

REGULATORY ANALYST

Title

5/24/2010

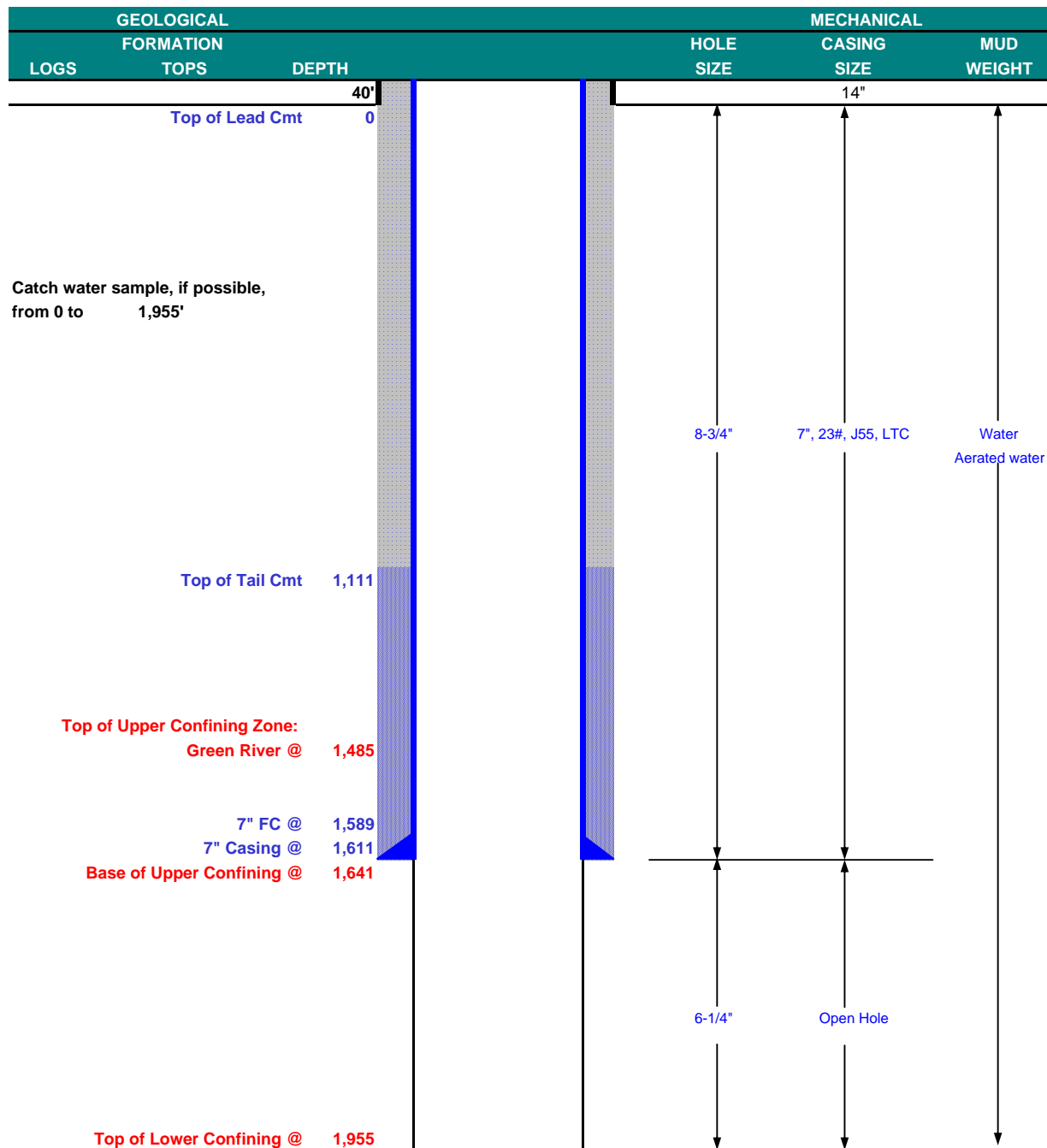
Date

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/5/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests to change the drilling plans for this well. Changes include modifying the cement program, changing the setting depth of the casing, and changing the casing connection. Please see the attached revised drilling program for the details. Please contact the undersigned with any questions. Thank you.		
NAME (PLEASE PRINT) Kathy Schneebeck-Dulnoan		PHONE NUMBER 720 929-6007
SIGNATURE N/A		TITLE Staff Regulatory Analyst
DATE 6/29/2010		APPROVED BY: <div style="text-align: center;"> Approved by the Utah Division of Oil, Gas and Mining Date: <u>July 01, 2010</u> By: <u></u> </div>



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	June 29, 2010	
WELL NAME	NBU 921-34H SWD		TD	1,955'	MD/TVD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
		ELEVATION	5,043'	GL	KB NA
SURFACE LOCATION	SENE SEC. 34, T9S, R21E 2141' FNL, 767' FEL				BHL
	Latitude: 39.993947 Longitude: -109.530369 NAD 27				Straight Hole
OBJECTIVE ZONE(S)	Green River (Bird's Nest)				
ADDITIONAL INFO	Regulatory Agencies: UDOGM (SURF & MINERALS), EPA, BLM, Tri-County Health Dept.				



Either open hole or cased hole logs will be run f/TD - surface

Max anticipated
Mud required
8.4 ppg





KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				4360	3270	313000
SURFACE	7	0 to 1641	23.00	J-55	LTC	10.29	4.34	8.45

CEMENT PROGRAM

	FT. OF CMT	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
LEAD	1,111	Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	110	40%	12.00	2.24
TAIL	500	Class "G" + 2% CaCl + .25 pps celloflake	90	40%	15.80	1.17
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.17

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints and every third joint to surface. Thread lock guide shoe, shoe joint, float collar and joint on top of float collar.
---------	---

ADDITIONAL INFORMATION

Drilling will be done utilizing a small air rig. An air hammer will be utilized. Air rig to drill to 1641', run logs, then cement casing, and then RDMOL so a workover rig can come in later and drill the open hole section after WOC.

No BOPE will be utilized other than a rotating head as there is no potential for hydrocarbons. This type of equipment drills all of our existing surface casing presets for our typical Wasatch/Mesaverde development.

ENGINEER: _____
John Huycke
DRILLING SUPERINTENDENT: _____
Lovel Young

DATE: _____
DATE: _____

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	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
MIRU PROPETRO AIR RIG ON JULY 9, 2010. DRILLED 8 3/4" SURFACE HOLE TO 1611'. RAN 7" 23# J-55 SURFACE CSG. PUMP 20 BBLS FRESH WATER. PUMP 103 SX CLASS G PREM LITE @ 12.0 PPG, 2.43 YD. PUMP 100 SX CLASS G PREM LITE @ 15.8 PPG, 1.17 YD. DROP PLUG ON THE FLY, DISPLACED 52 BBLS WATER. BUMP PLUG, CIRC THROUGHOUT JOB. TOP OUT THROUGH 1" W/ 50 SX SAME CEMENT. 12 BBLS GOOD CEMENT BACK TO PIT. RELEASED PROPETRO AIR RIG ON JULY 11, 2010 AT 03:30 HRS. RIG WILL RETURN IN 1-2 WEEKS TO DRILL THE REMAINING FOOTAGE TO GET TO TD.		
<div style="text-align: right;"> Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 14, 2010 </div>		
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 7/12/2010		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ST UO 1194A
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-34H SWD
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2141 FNL 0767 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 34 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047402540000
PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/11/2010			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 MIRU PROPETRO AIR RIG ON 8/10/2010. FINISHED DRILLING FROM 1611' TO 1955' ON 8/11/2010. RELEASE PROPETRO RIG ON 8/11/2010 AT 09:00 HRS

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 August 12, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 8/12/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ST UO 1194A
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-34H SWD
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2141 FNL 0767 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 34 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047402540000
PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text" value="WELL WORK"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/21/2010			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 PLEASE SEE ATTACHED CHRONOLOGICAL WELL HISTORY FOR WELL WORK THAT WAS RECENTLY PERFORMED ON THE SUBJECT WELL LOCATION.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 November 02, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 10/25/2010	

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-34H SWD

Spud Date: 7/9/2010

Project: UTAH-UINTAH

Site: NBU 921-34H

Rig Name No: SWABBCO 1/1

Event: WELL WORK EXPENSE

Start Date: 10/7/2010

End Date:

Active Datum: RKB @5,043.00ft (above Mean Sea Leve

UWI: NBU 921-34H SWD

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/13/2010	12:00 - 14:00	2.00	COMP	30	A	P		ROAD RIG AND EQUIP FROM NBU 921-33F SWD. RUSU. ND WH. NU BOP.
	14:00 - 15:00	1.00	COMP	41	A	P		RU CUTTERS AND RUN CBL/GR ON 7" 23# CSG FROM 1611' (SHOE) TO 425' (FLUID LEVEL). RD CUTTERS.
	15:00 - 16:30	1.50	COMP	31	I	P		CHANGE OUT 2-7/8" PIPE RAMS. MU 6-1/4" BIT, BIT SUB AND RIH AS MEAS 2-7/8" L-80 TBG. WENT OUT SHOE AT 1615' W/ 51-JTS TO 1830' W/ 58-JTS IN.
	16:30 - 17:30	1.00	COMP	34	J	P		RU PLS. RIH W/ DOWNHOLE PRESSURE RECORDERS. ON DEPTH OF 1798' AT 17:03. WILL PULL TOOLS AT 09:00. SDFN
10/14/2010	8:45 - 9:00	0.25	COMP	48		P		JSA- SLICK LINE. SWABING.
	9:00 - 10:00	1.00	COMP	35	E	P		PULL RECORDER AS TAKING READING. RD PLS.
	10:00 - 11:00	1.00	COMP	31	I	P		RIH W/ 4-JTS TO 1954' W/ 62-JTS 2-7/8" L-80 IN. DID NOT TAG (OHTD 1955'). LD 2-JTS. HAVE 60-JTS IN W/ BIT AT 1892'. RU SWAB.
	11:00 - 16:30	5.50	COMP	42	B	P		HOLE VOLUME 59.7 BBLS FLUID. EOT 1892'. MADE 28 RUNS TODAY. IFL 400'. FFL 600'. PULLING FROM 1890'. TOT 137 BBLS RCVR. (AVE 28 BPH). CAUGHT 12 SAMPLES AND SENT TO NALCO.
	16:30 - 17:00	0.50	COMP	31	I	P		RD SWAB. POOH AS LD 10 JTS. 50-JTS IN, EOT AT 1580'. SDFN
10/15/2010	7:00 - 7:15	0.25	COMP	48		P		JSA- SWABBING
	7:15 - 11:30	4.25	COMP	42	B	P		RIH W/ 10-JTS 2-7/8" TBG. EOT AT 1892'. RU SWAB. MADE 21-SWAB RUNS TODAY. IFL 400'. FFL 500'. RCVR 105.3 BBLS TODAY. CUMM 242.3 BBLS. RD SWAB.
	11:50 - 13:00	1.17	COMP	31	I	P		RIH W/ 3-JTS. TAG TD AT 1955'. POOH AS LD 2-7/8" TBG, BIT SUB, AND BIT. X-OUT PIPE RAMS. PU 7" 23# AS1 (WTFD) PKR AND RIH W/ 50-JTS 3-1/2" 9.3# J-55 FIBERLINED TBG. LAND ON 7" 5K HANGER. RD FLOOR. NU BOP. MIX 70 BBLS PKR FLUID. PMP PKR FLUID DOWN CSG. PU HANGER AND SET 7" AS1 PKR W/ ELEM AT 1588.17' AND EOT AT 1592.71'. PACK OFF W/ 30K OVER. LAND W/ 8K DOWN. RUN IN PINS. P-TEST W/ RIG PMP AND BLEED OUT AIR. HOLDING 500#. NU WH. HOOK UP B&C AND RUN MIT TEST AT 500# FOR 30-MIN. GOOD
	13:00 - 13:00	0.00	COMP	31	I	P		TBG DETAIL KB 0.00 7" 5K HANGER 1.00 3-1/2" J-55 TOP JT 31.32 49-JTS 3-1/2" J-55 1552.01 7" 23# AS1 PKR ELEM (3.84 @ 1588.17) OAL PKR 8.38 EOT 1592.71'
10/19/2010	7:00 - 13:00	6.00	COMP	33	D	P		CHANGE OUT CAP ON WELLHEAD. MIRU PLS. MIRU SUPERIOR. RIH W/ PRESSURE RECORDER AND SPOT AT 1798'. HAVING PROBLEMS WITH SUPERIOR FLOW METER. UNABLE TO GET FLOW METER TO WORK. RUN OFF SUPERIOR AT 12:30 PM. PULL PRESSURE RECORDER. RD PLS.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-34H SWD

Spud Date: 7/9/2010

Project: UTAH-UINTAH

Site: NBU 921-34H

Rig Name No: SWABBCO 1/1

Event: WELL WORK EXPENSE

Start Date: 10/7/2010

End Date:

Active Datum: RKB @5,043.00ft (above Mean Sea Leve

UWI: NBU 921-34H SWD

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/20/2010	7:00 - 16:30	9.50	COMP	33	D	P		MIRU SUPERIOR. MIRU PLS. RUN PRESSURE RECORDERS TO 1798'. PUMP STEP RATE TEST. STARTING AT .8 BPM FOR 1-HR, 10 MIN PRES. 53# / 95# / 108# / 117# / 122# / 125# / 127#. 1.5 BPM FOR 1-HR, 10-MIN PRES 150# / 181# / 182# / 185# / 190# / 190# / 191#. 3.0 BPM FOR 1-HR, 10-MIN PRES. 249# / 261# / 251# / 249# / 249# / 249# / 249#. 6.0 BPM FOR 1-HR, 10-MIN PRES. 432# / 443# / 443# / 442# / 443# / 444# / 445#. 9 BPM FOR 1-HR, 10-MIN PRES. 706# / 718# / 722# / 724# / 724# / 724# / 724#. 12.0 BPM FOR 1-HR, 10-MIN PRES. 1080# / 1080# / 1083# / 1078# / 1082# / 1084# / 1082#. 14.9 BPM FOR 1-HR, 10-MIN PRES 1541# / 1550# / 1543# / 1550# / 1545# / 1540# / 1542#.
10/21/2010	9:00 - 12:00	3.00	COMP	33	G	P		PULL RECORDERS. RDMO PLS AND SUPERIOR. MIRU PLS AND SUPERIOR. RIH W/ RATS TOOLS. RUN STATIC LOG. START PUMPING- 4.5 BPM FOR 300 PSI AND CONTINUE THRU RATS TEST. INJECT AND TRACT. ALL LOOKS GOOD. RD PLS AND SUPERIOR.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-34H SWD
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2141 FNL 0767 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 34 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047402540000
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> APD EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:		
<input type="checkbox"/> SPUD REPORT Date of Spud:		
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/6/2011		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL FIRST INJECTION WAS ON 05/06/2011 AT 8:45 PM. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED ALONG WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 5/10/2011	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:
ST UO 1194A

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER SWD

b. TYPE OF WORK:
NEW WELL ☒ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR:
P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217

PHONE NUMBER:
(720) 929-6100

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: SENE 2141 FNL 767 FEL S34, T9S, R21E

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 921-34H SWD

9. API NUMBER:
4304740254

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,
MERIDIAN:
SENE 34 9S 21E S

12. COUNTY
UINTAH

13. STATE
UTAH

14. DATE SPUDDED: 5/20/2010

15. DATE T.D. REACHED:
8/11/2010

16. DATE COMPLETED:
5/6/2011

ABANDONED ☐ READY TO PRODUCE ☒

17. ELEVATIONS (DF, RKB, RT, GL):
5039 GL

18. TOTAL DEPTH: MD 1,955
TVD

19. PLUG BACK T.D.: MD 1,589
TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE
PLUG SET: MD
TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

GR/CBL-SD/DSN/ACTR-BHV

23.
WAS WELL CORED? NO ☒ YES ☐ (Submit analysis)
WAS DST RUN? NO ☒ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☒ YES ☐ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
8 3/4"	7" J-55	23#		1,611		253			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
3 1/2"	1,593							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) BirdNest					Open			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(B) (GRV)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

RECEIVED

JUN 18 2011

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS:

PROD

WD

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD: FLOWING
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS: PROD	

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:	

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:	

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:	

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1,485				

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological well history.

water Disposal well no test

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDREW LYTLE

TITLE REGULATORY ANALYST

SIGNATURE *[Signature]*

DATE 6/9/2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

RECEIVED

JUN 16 2011

DIV. OF OIL, GAS & MINING

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-34H SWD

Spud Date: 7/9/2010

Project: UTAH-UINTAH

Site: NBU 921-34H

Rig Name No: PROPETRO/, PROPETRO/

Event: DRILLING

Start Date: 7/1/2010

End Date: 8/11/2010

Active Datum: RKB @5,043.00ft (above Mean Sea Level)

UWI: NBU 921-34H SWD

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/9/2010	6:00 - 14:30	8.50	MIRU	01	B	P		MOVE ONTO LOCATION. CLEAN CONDUCTOR PILES UP AROUND WELL HEAD. DRESS TOP OF CONDUCTOR. INSTALL DIVERTER HEAD AND BOWIE LINE. BUILD DITCH. MOVE RIG OVER HOLE AND RIG UP. RIG UP AND PRIME PIT PUMP AND MUD PUMP. SET CATWALK AND PIPE RACKS. HAVE SAFETY MEETING/ GO OVER WELL PLAN W/ CO-MAN AND CREW.
	14:30 - 18:00	3.50	DRLPRO	02	A	P		DRILL 8.75" INJECTION HOLE F/ 40'-500', (460' @ 131'/HR) 10-15K= WOB, GPM= 350, OBP=1500 PSI, SPP=2000, UP/DN/ROTA 41/39/40, CIRC RESERVE PIT. 8.3 WT 27 VIS. FULL RETURNS.
	18:00 - 18:30	0.50	DRLPRO	10	B	P		RU AND RUN SINGLE SHOT SURVE W/ MULTISHOT TOOL, .8 DEG 105.3 AZ
	18:30 - 23:30	5.00	DRLPRO	02	A	P		DRILL 8.75" INJECTION HOLE F/ 500'-1110', (610' @ 122'/HR) 10-15K= WOB, GPM= 350, OBP=1500 PSI, SPP=2000, UP/DN/ROTA 41/39/40, CIRC RESERVE PIT. 8.3 WT 27 VIS. FULL RETURNS.
	23:30 - 0:00	0.50	DRLPRO	10	B	P		RU AND RUN SINGLE SHOT SURVE W/ MULTISHOT TOOL, 1.4 DEG 27.3 AZ
7/10/2010	0:00 - 4:15	4.25	PROD	02	A	P		DRILL 8.75" INJECTION HOLE F/ 1110'-1611', (500' @ 117'/HR) 15-25K= WOB, GPM= 350, ON/OFF 2200/1550 PSI, UP/DN/ROTA 44/42/43 DRAG=1K, CIRC RESERVE PIT. 8.3 WT 27 VIS. FULL RETURNS.
	4:15 - 4:45	0.50	PROD	10	B	P		RUN WIRELINE SINGLE SHOT SURVEY, .8 DEG 325.9 AZ
	4:45 - 6:30	1.75	PROD	05	A	P		CIRC AND COND HOLE CLEAN, PUMPED POLYMER SWEEPS TO CLEAN HOLE (HALLIBURTON LOGGERS ON LOC @ 05:30)
	6:30 - 8:00	1.50	PROD	06	A	P		TOOH, LDDS, HOLE STARTED FLOWING
	8:00 - 13:00	5.00	PROD	05	A	P		CIRC HOLE WHILE WAITING ON DRILLING MUD, PUMP 50 BBLs 11.5# 45 VIS DRILLING MUD DOWN HOLE @ 500' TO CONTROL FLOW
	13:00 - 14:00	1.00	PROD	06	A	P		TOOH TO RUN OPEN HOLE LOGS
	14:00 - 16:15	2.25	EVALPR	11	D	P		RU AND RUN OPEN HOLE LOGS W/ HALLIBURTON, RD LOGGERS
	16:15 - 19:30	3.25	CSG	12	B	P		LOGGERS TD @ 1616'
	19:30 - 20:30	1.00	CSG	05	A	P		RU AND RUN 36 JTS 7" 23# J-55 SURFACE CSG, CSG SHOE SET @ 1610.90', FLOAT COLLAR @ 1589.33. FILLED CSG @ 500', 1000', & 1605'
	20:30 - 0:00	3.50	CSG	12	E	P		CIRC CSG WHILE RIGGING UP BJ CEMENTERS
								RU AND START CMT , BJ DIDN'T REALIZE THEY HAD WRONG CMT ON TRK, CIRC CMT OUT OF HOLE W/150 BBLs FRESH H2O, CIRC W/ RIG LOST TOTAL CIRC, REGAINED CIRC, CONTINUED PUMPING UNTIL BJ CAME W/ CORRECT CMT
7/11/2010	0:00 - 3:00	3.00	CSG	12	E	P		HOLD SAFETY MEETING, PRESSURE TEST LINES TO 3000 PSI. PUMP 20 BBLs H2O, PUMP, PUMP 103 SX (56 BBLs) OF 12#, 2.43 YIELD, PREM LIGHT CEMENT. PUMP 100 SX(12 BBLs) OF 15.8#, 1.17 YD TAIL CEMENT. DROP PLUG ON FLY, DISPLACE W/ 52 BBLs OF H2O. BUMP PLUG, CIRC THROUGH OUT JOB. TOP OUT THROUGH 1" W/ 50 SX (10.5 BBLs) OF 15.8#, 1.17 YD, 5 GAL/SK 4% CALC. 12 BBLs GOOD CMT BACK TO PIT

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DIV. OF OIL, GAS & MINING

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-34H SWD

Spud Date: 7/9/2010

Project: UTAH-UINTAH

Site: NBU 921-34H

Rig Name No: PROPETRO/, PROPETRO/

Event: DRILLING

Start Date: 7/1/2010

End Date: 8/11/2010

Active Datum: RKB @5,043.00ft (above Mean Sea Level)

UWI: NBU 921-34H SWD

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/10/2010	3:00 - 3:30	0.50	RDMO	01	E	P		RIG DOWN RIG, MOVE OFF LOC. RELEASE RIG 7/11/2010 03:30
	0:00 - 11:30	11.50	MIRU	01	A	P		MOVE RIG ONTO LOCATION, HAVE WELDER CUT OFF WELL HEAD AND INASTALL COLLAR ON TOP OF 7" CSG, DRESS TOP OF CONDUCTOR. INSTALL DIVERTER HEAD AND BOWIE LINE. BUILD DITCH. MOVE RIG OVER HOLE AND RIG UP.. SET CATWALK AND PIPE RACKS. RIG UP AND PRIME PIT PUMP AND MUD PUMP.
	11:30 - 15:00	3.50	PRSPD	06	A	P		PU 6 1/4" TRI-CONE AND 10 4" DC, 4" DP TIH T/ 1611'
	15:00 - 0:00	9.00	PRSPD	02	A	P		DRILL CMT, FLOAT COLLAR AND FLOAT SHOE, CSG SHOE @ 1610.90', FLOAT COLLAR @ 1589.33. DRILL OPEN HOLE F/ 1610'-1860' (219'@25'/HR) 20K WOB 80 RPM ON TOP DRIVE, 450 GPM "NO LOSSES OR GAINS"
8/11/2010	0:00 - 5:00	5.00	DRLPRO	02	A	P		DRLG F/1860'-1955' (95' @ 19'/HR) T.D. 8-11-2010 @ 05:00, WOB 15-20K TABLE ROT 65-80 GPM 450 NO LOSSES OR GAINS
	5:00 - 5:30	0.50	DRLPRO	05	A	P		CIRC AND COND HOLE CLEAN
	5:30 - 8:30	3.00	DRLPRO	06	A	P		TOOH/ LDDS AND BHA
	8:30 - 9:00	0.50	DRLPRO	01	E	P		RIG DOWN RIG MOVE OUT, RELEASE RIG 8/11/2010 @ 09:00

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US ROCKIES REGION

Operation Summary Report

Well: NBU 921-34H SWD

Spud Date: 7/9/2010

Project: UTAH-UINTAH

Site: NBU 921-34H

Rig Name No: SWABBCO 1/1

Event: WELL WORK EXPENSE

Start Date: 10/7/2010

End Date:

Active Datum: RKB @5,043.00ft (above Mean Sea Level)

UWI: NBU 921-34H SWD

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/13/2010	12:00 - 14:00	2.00	COMP	30	A	P		ROAD RIG AND EQUIP FROM NBU 921-33F SWD. RUSU. ND WH. NU BOP.
	14:00 - 15:00	1.00	COMP	41	A	P		RU CUTTERS AND RUN CBL/GR ON 7" 23# CSG FROM 1611' (SHOE) TO 425' (FLUID LEVEL). RD CUTTERS.
	15:00 - 16:30	1.50	COMP	31	I	P		CHANGE OUT 2-7/8" PIPE RAMS. MU 6-1/4" BIT, BIT SUB AND RIH AS MEAS 2-7/8" L-80 TBG. WENT OUT SHOE AT 1615' W/ 51-JTS TO 1830' W/ 58-JTS IN.
	16:30 - 17:30	1.00	COMP	34	J	P		RU PLS. RIH W/ DOWNHOLE PRESSURE RECORDERS. ON DEPTH OF 1798' AT 17:03. WILL PULL TOOLS AT 09:00. SDFN
10/14/2010	8:45 - 9:00	0.25	COMP	48		P		JSA- SLICK LINE. SWABING.
	9:00 - 10:00	1.00	COMP	35	E	P		PULL RECORDER AS TAKING READING. RD PLS.
	10:00 - 11:00	1.00	COMP	31	I	P		RIH W/ 4-JTS TO 1954' W/ 62-JTS 2-7/8" L-80 IN. DID NOT TAG (OHTD 1955'). LD 2-JTS. HAVE 60-JTS IN W/ BIT AT 1892'. RU SWAB.
	11:00 - 16:30	5.50	COMP	42	B	P		HOLE VOLUME 59.7 BBLS FLUID. EOT 1892'. MADE 28 RUNS TODAY. IFL 400'. FFL 600'. PULLING FROM 1890'. TOT 137 BBLS RCVR. (AVE 28 BPH). CAUGHT 12 SAMPLES AND SENT TO NALCO.
10/15/2010	16:30 - 17:00	0.50	COMP	31	I	P		RD SWAB. POOH AS LD 10 JTS. 50-JTS IN, EOT AT 1580'. SDFN
	7:00 - 7:15	0.25	COMP	48		P		JSA- SWABBING
	7:15 - 11:30	4.25	COMP	42	B	P		RIH W/ 10-JTS 2-7/8" TBG. EOT AT 1892'. RU SWAB. MADE 21-SWAB RUNS TODAY. IFL 400'. FFL 500'. RCVR 105.3 BBLS TODAY. CUMM 242.3 BBLS. RD SWAB.
	11:50 - 13:00	1.17	COMP	31	I	P		RIH W/ 3-JTS. TAG TD AT 1955'. POOH AS LD 2-7/8" TBG, BIT SUB, AND BIT. X-OUT PIPE RAMS.
10/19/2010	13:00 - 13:00	0.00	COMP	31	I	P		PU 7" 23# AS1 (WTFD) PKR AND RIH W/ 50-JTS 3-1/2" 9.3# J-55 FIBERLINED TBG. LAND ON 7" 5K HANGER. RD FLOOR. NU BOP. MIX 70 BBLS PKR FLUID. PMP PKR FLUID DOWN CSG. PU HANGER AND SET 7" AS1 PKR W/ ELEM AT 1588.17' AND EOT AT 1592.71'. PACK OFF W/ 30K OVER. LAND W/ 8K DOWN. RUN IN PINS. P-TEST W/ RIG PMP AND BLEED OUT AIR. HOLDING 500#. NU WH. HOOK UP B&C AND RUN MIT TEST AT 500# FOR 30-MIN. GOOD
								TBG DETAIL KB 0.00
								7" 5K HANGER 1.00
								3-1/2" J-55 TOP JT 31.32
10/19/2010								49-JTS 3-1/2" J-55 1552.01
								7" 23# AS1 PKR ELEM (3.84 @ 1588.17)
								OAL PKR 8.38
								EOT 1592.71'
10/19/2010	7:00 - 13:00	6.00	COMP	33	D	P		CHANGE OUT CAP ON WELLHEAD. MIRU PLS. MIRU SUPERIOR. RIH W/ PRESSURE RECORDER AND SPOT AT 1798'. HAVING PROBLEMS WITH SUPERIOR FLOW METER. UNABLE TO GET FLOW METER TO WORK. RUN OFF SUPERIOR AT 12:30 PM. PULL PRESSURE RECORDER. RD PLS.

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DIV. OF OIL, GAS & MINING

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-34H SWD				Spud Date: 7/9/2010					
Project: UTAH-UINTAH			Site: NBU 921-34H				Rig Name No: SWABBCO 1/1		
Event: WELL WORK EXPENSE			Start Date: 10/7/2010				End Date:		
Active Datum: RKB @5,043.00ft (above Mean Sea Level)				UWI: NBU 921-34H SWD					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
10/20/2010	7:00 - 16:30	9.50	COMP	33	D	P		MIRU SUPERIOR. MIRU PLS. RUN PRESSURE RECORDERS TO 1798'. PUMP STEP RATE TEST. STARTING AT .8 BPM FOR 1-HR, 10 MIN PRES. 53# / 95# / 108# / 117# / 122# / 125# / 127#. 1.5 BPM FOR 1-HR, 10-MIN PRES 150# / 181# / 182# / 185# / 190# / 190# / 191#. 3.0 BPM FOR 1-HR, 10-MIN PRES. 249# / 261# / 251# / 249# / 249# / 249# / 249#. 6.0 BPM FOR 1-HR, 10-MIN PRES. 432# / 443# / 443# / 442# / 443# / 444# / 445#. 9 BPM FOR 1-HR, 10-MIN PRES. 706# / 718# / 722# / 724# / 724# / 724# / 724#. 12.0 BPM FOR 1-HR, 10-MIN PRES. 1080# / 1080# / 1083# / 1078# / 1082# / 1084# / 1082#. 14.9 BPM FOR 1-HR, 10-MIN PRES 1541# / 1550# / 1543# / 1550# / 1545# / 1540# / 1542#.	
10/21/2010	9:00 - 12:00	3.00	COMP	33	G	P		PULL RECORDERS. RDMO PLS AND SUPERIOR. MIRU PLS AND SUPERIOR. RIH W/ RATS TOOLS. RUN STATIC LOG. START PUMPING- 4.5 BPM FOR 300 PSI AND CONTINUE THRU RATS TEST. INJECT AND TRACT. ALL LOOKS GOOD. RD PLS AND SUPERIOR.	

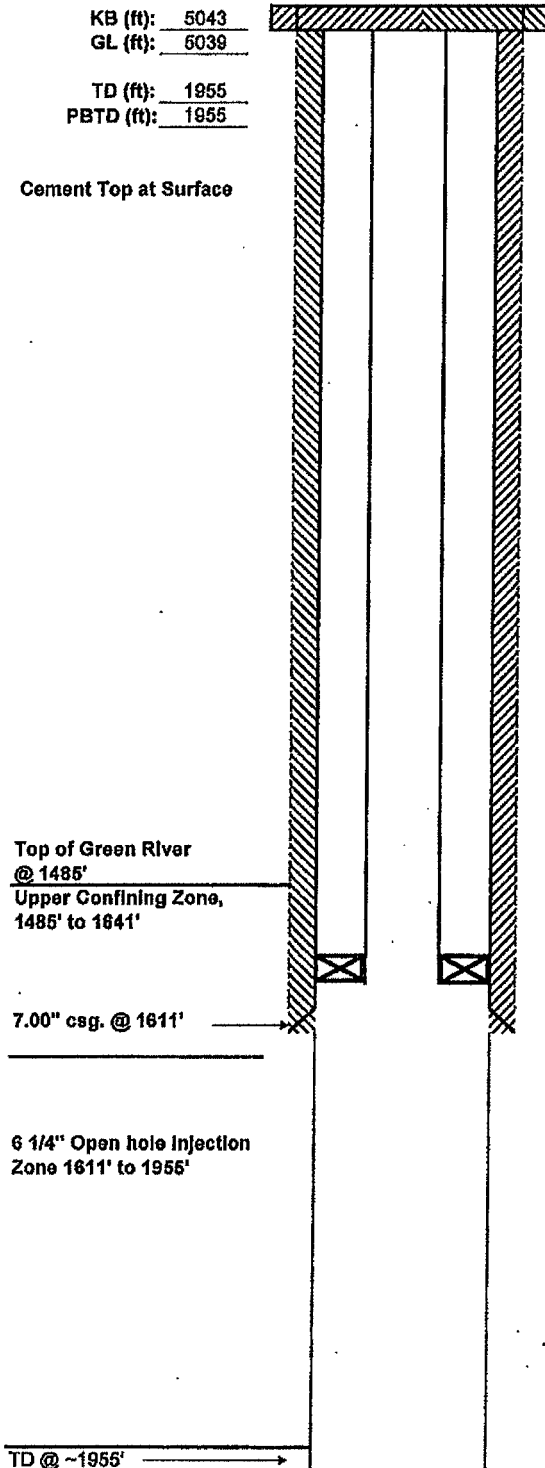
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WELL: NBU 921-34H SWD
 FIELD: NATURAL BUTTES
 API #: 4304740264
 LEASE #: U-01194-A-ST
 EPA PERMIT #: UT21144-07813

CNTY: UTAH
 STATE: UTAH

FT.: 2141' FNL 767' FEL
 Q-Q: SENE
 SEC.: 34
 TWS: 9S
 RGE: 21E

WELLBORE DIAGRAM (October 15, 2010)



CASING RECORD

HOLE (in)	SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	BTM (ft)
8 3/4	7	23	J-55	0	1611

TUBING RECORD

SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	BTM (ft)
3 1/2	9.3	J-55	0	1588
3 1/2	Packer		1588	Pkr elements

PERFORATION RECORD

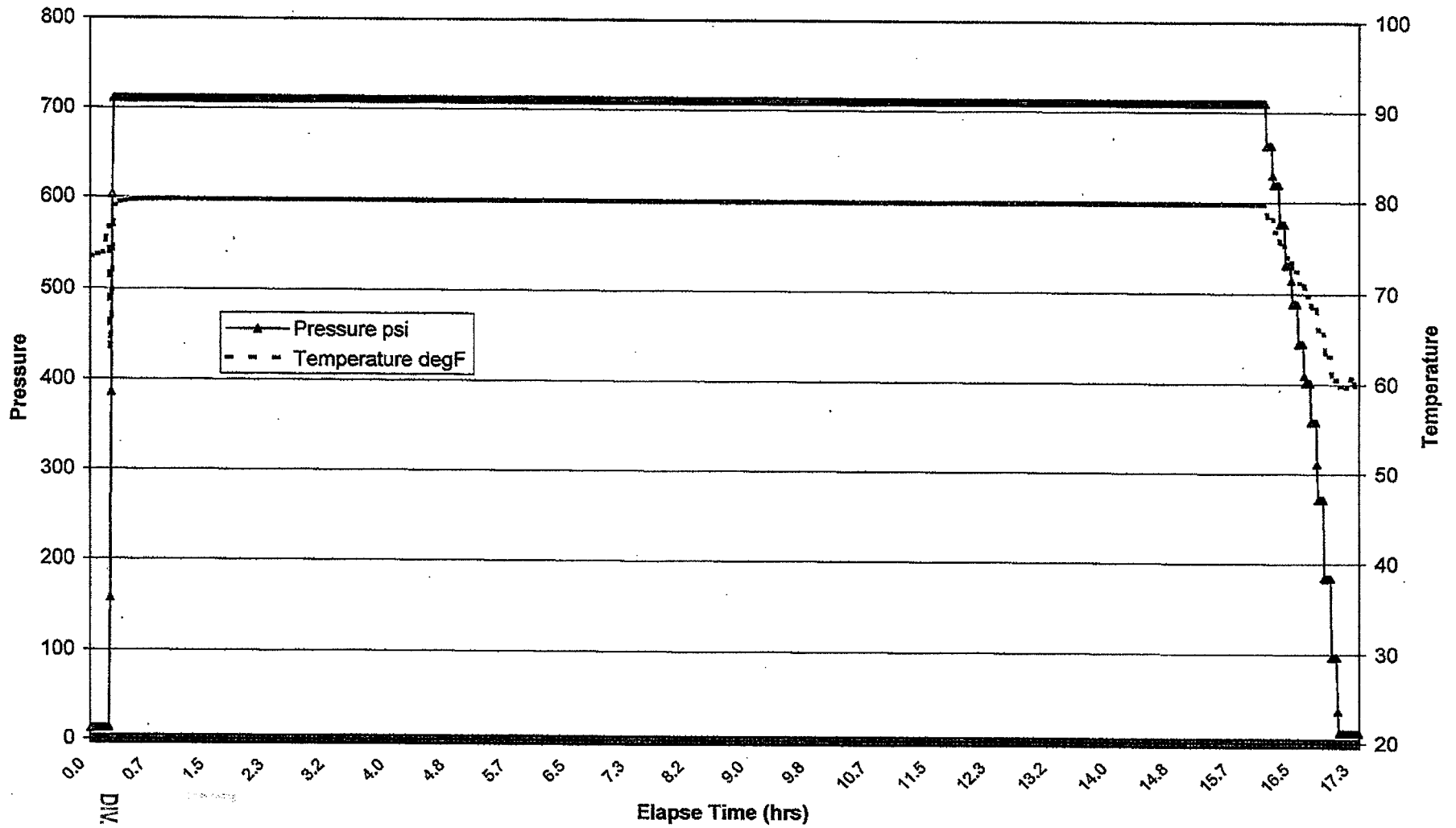
ZONE	TOP (ft)	BTM (ft)	SPF	DATE SHOT	STATUS
6 1/4" Open hole	1611-1955'				

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NBU 921-34H SWD
Pressure/Temperature Survey @ 1798' (10/13/2010)



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Anadarko Petroleum

Injection Zone Water Sampling

NBU 921-34H SWI Injection Zone Water Sampling

Time	Vol recovered (bbls)	Cum vol recovered (bbls)	Load left to Recover (bbls)	Chlorides PPM	Potassium	Sodium	Calcium	TDS	SG	Bicarbonate	Sulfate	pH
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7/9-11/2010 Drilling operations to 1811' (above Bird's nest top), logged, and cemented 7" casing. Had good returns during drilling operations. Had to pump 50 bbl 11.5 ppg mud down hole to 500' to control flow prior to logging

8/10-11/2010 Moved air rig back on to drill out cement and drilled open hole down to 1955'. (No gains or losses)

Completions RIH W/ 4-JTS TO 1954' W/ 62-JTS 2-7/8" L-80 IN. DID NOT TAG (OHTD 1955'). LD 2-JTS. HAVE 60-JTS IN W/ BIT AT 1892'. RU SWAB.
10/12-15/2010 HOLE VOLUME 59.7 BBLs FLUID. EOT 1892'. MADE 28 RUNS TODAY. IFL 400'. FFL 600'. PULLING FROM 1890'. TOT 137 BBLs RCVR. (AVE 28 BPH). CAUGHT 12 SAMPLES AND SENT TO (7", 23#, J-55 casing to 1811' and 6 1/4" OH below to 1955'; FL @ ±425') SWABBED AN ADDITIONAL DAY (10/15/2010) AND RECOVERED AN ADDITIONAL 105 BBLs FOR A TOTAL OF 242 BBLs AND TOOK 8 MORE SAMPLES

Initial bbls to recover 60

10/14/10

11:30 AM	9.93	9.9	50	3800	83	3,663	154.4	10,245		1,732	1,020	8.73
11:45 AM	8.28	18.2	41	3700	80	4,015	159.8	10,740		1,702	1,140	9.42
11:55 AM	6.62	24.8	35	3800	100	31,088	218.9	55,125		40,480	170	8.69
12:05 PM	4.93	29.8	30	4100	92	15,593	192.2	29,265		16,877	300	9.01
12:15 PM	4.93	34.7	25									
12:25 PM	4.93	39.6	20									
12:35 PM	3.31	42.9	17									
12:45 PM	3.31	46.2	13									
1:15 PM	6.62	52.9	7	5800	63	11,751	64.3	24,178		10,333	170	9.07
1:25 PM	6.62	59.5	0									
1:35 PM	6.62	66.1	-8									
1:45 PM	6.62	72.7	-13	6400	52	12,227	17.5	25,339		11,700	110	9.13
1:55 PM	3.31	76.0	-16									
2:05 PM	3.31	79.3	-20									
2:15 PM	3.31	82.7	-23									
2:25 PM	4.93	87.6	-28	6700	55	12,146	31.7	24,960		9,833	160	9.2
2:35 PM	3.31	90.9	-31									
2:45 PM	3.31	94.2	-35									
2:55 PM	4.93	99.1	-39	6500	58	14,015	23.2	26,900		10,370	60	9.34
3:05 PM	4.93	104.1	-44									
3:15 PM	3.31	107.4	-48									
3:25 PM	4.93	112.3	-53	6600	58	14,192	29.2	28,052		12,664	70	9.33
3:35 PM	4.93	117.2	-58									
3:45 PM	3.31	120.5	-61									
3:55 PM	4.93	125.5	-66	6900	52	13,277	29.4	28,455		10,870	80	9.35
4:05 PM	4.93	130.4	-71	6800	49	12,658	13.1	25,531		9,833	50	9.35
4:15 PM	3.3	133.7	-74									
4:25 PM	3.3	137.0	-77	7700	53	13,703	14.1	27,276		10,028	80	9.34

10/15/10

7:40 AM	8.27	145.3	-86	7900	53	13,010	21.4	25,928		8,247	60	9.17
7:50 AM	4.93	150.2	-91	7100	53	13,198	12.1	27,785		13,896	40	9.22
8:00 AM	4.93	155.1	-95									
8:10 AM	6.63	161.8	-102									
8:20 AM	4.93	166.7	-107	6900	51	12,758	34.8	26,784		12,749	50	9.21
8:30 AM	4.93	171.6	-112									
8:40 AM	4.93	176.6	-117									
8:50 AM	4.93	181.5	-122	6900	53	13,603	10.9	27,320		12,188	50	9.2
9:00 AM	4.93	186.4	-127									
9:10 AM	4.93	191.3	-132									
9:20 AM	4.93	196.3	-137	7700	52	13,194	9.2	27,814		11,919	60	9.21
9:30 AM	4.93	201.2	-142									
9:40 AM	4.93	206.1	-148									
9:50 AM	4.93	211.1	-151	7600	50	13,098	5.4	26,987		11,419	50	9.21
10:00 AM	4.93	216.0	-156									
10:10 AM	4.93	220.9	-161									
10:20 AM	3.31	224.2	-165	7600	50	12,869	3.9	27,411		12,700	40	9.21
10:30 AM	4.93	229.2	-169									
10:40 AM	4.93	234.1	-174									
10:50 AM	4.93	239.0	-179									
11:00 AM	3.31	242.3	-183	7700	52	13,586	6.8	27,853		11,688	60	9.2

Negative sign means amount of fluid taken out of the birds nest past load volume

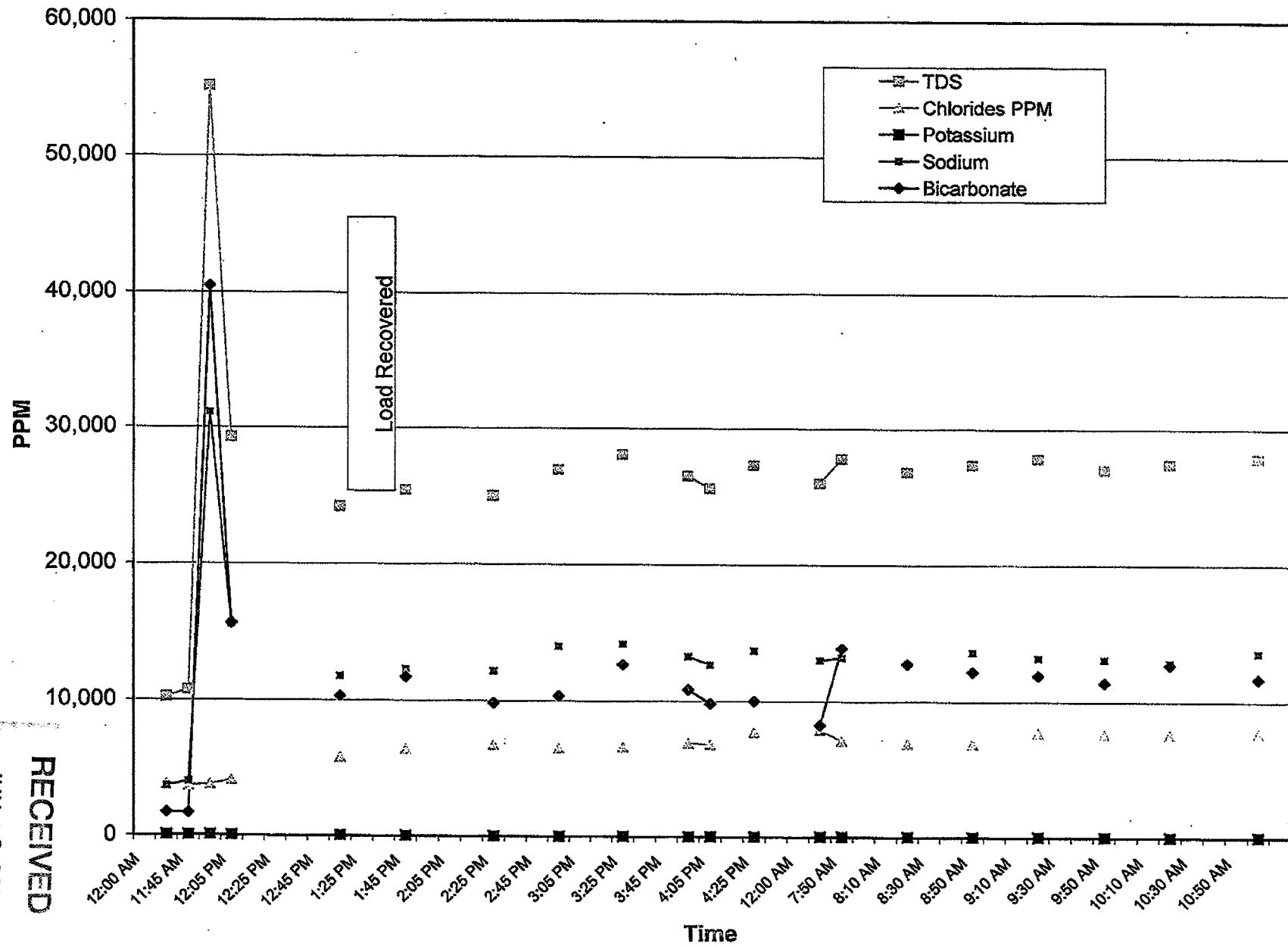
Time	Chlorides PPM	Potassium	Sodium	Calcium	TDS	SG	Bicarbonate	Sulfate	pH
Reference samples									
2% KCl	78400	33,320	31,091	618.0	144,553	1.101			7.67
Fresh water	300	15	222	136.0	979	1.001			7.98
T-Mac	1800	15	588	62.0	2,581				7.85

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NBU 921-34H SWD

10/14/10



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NBU 921-34H SWD SRT 10/20/2010

Minutes	BPM 8:47 AM	Surface Pressure	BPM 9:49 AM	Surface Pressure	BPM 10:50 AM	Surface Pressure	BPM 11:52 AM	Surface Pressure	BPM 12:54 PM	Surface Pressure	BPM 1:55 PM	Surface Pressure	BPM 2:57 PM	Surface Pressure
0	0.8	0	1.5	157	3	249	6	432	9	706	12	1080	15	1541
10	0.8	95	1.5	181	3	261	6	443	9	718	12	1080	15	1550
20	0.8	108	1.5	182	3	251	6	443	9	722	12	1083	15	1543
30	0.8	117	1.5	185	3	249	6	442	9	724	12	1078	15	1550
40	0.8	122	1.5	190	3	249	6	443	9	724	12	1082	15	1545
50	0.8	125	1.5	190	3	249	6	444	9	724	12	1084	15	1540
60	0.8	127	1.5	191	3	249	6	445	9	724	12	1082	15	1542
	9:47 AM		10:49 AM		11:50 AM		12:52 PM		1:54 PM		2:55 PM		3:57 PM	
Fluid density (ppg)	8.35 (Fresh water w/ KCL substitute)													

Final ISIP = 270 psi

Surface pressure before test 0
 Packer and EOT 1588 feet
 Down hole pressure bombs @ 1798 feet (MPP)
 3 1/2" (2.684") FL tubing with no XN Nipple on bottom.

	Hyrostatic Pressure Ph (psi)	Last Surf Pressure of each SRT	DHP Bomb
0.8	714	127	902.5
1.5	714	191	954.1
3	714	249	974.7
6	714	445	1002.8
9	714	724	1027.0
12	714	1082	1046.3
15	714	1542	1060.5

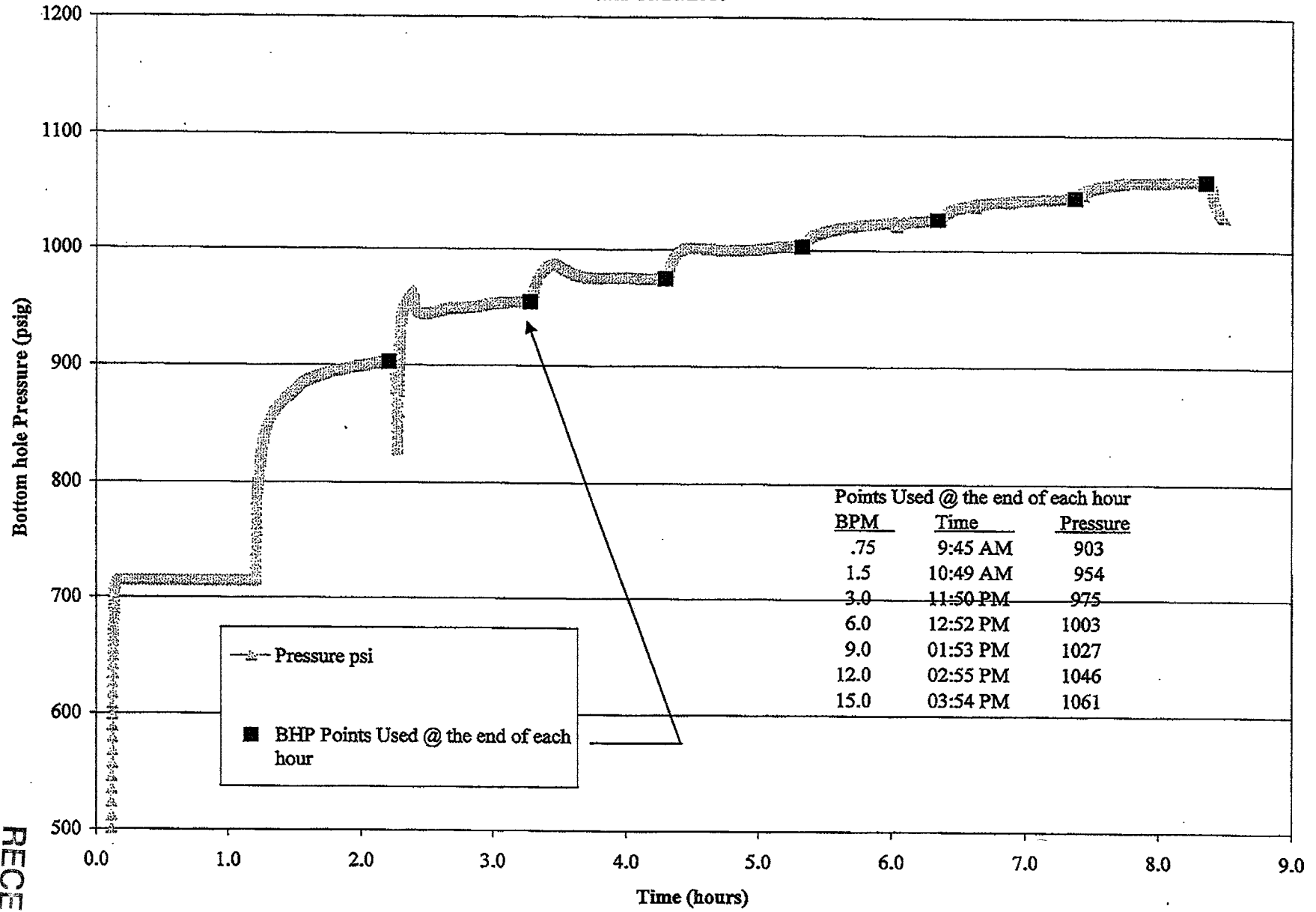
Friction Pressure @ MPP f/ DHP bomb	BJ's Friction Pressure @ EOT	My Calculated friction
-62	4	7
-49	14	24
-12	51	83
156	173	185
411	361	367
750	610	603
1196	915	892

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NBU 921-34H SWD
SRT 10/20/2010

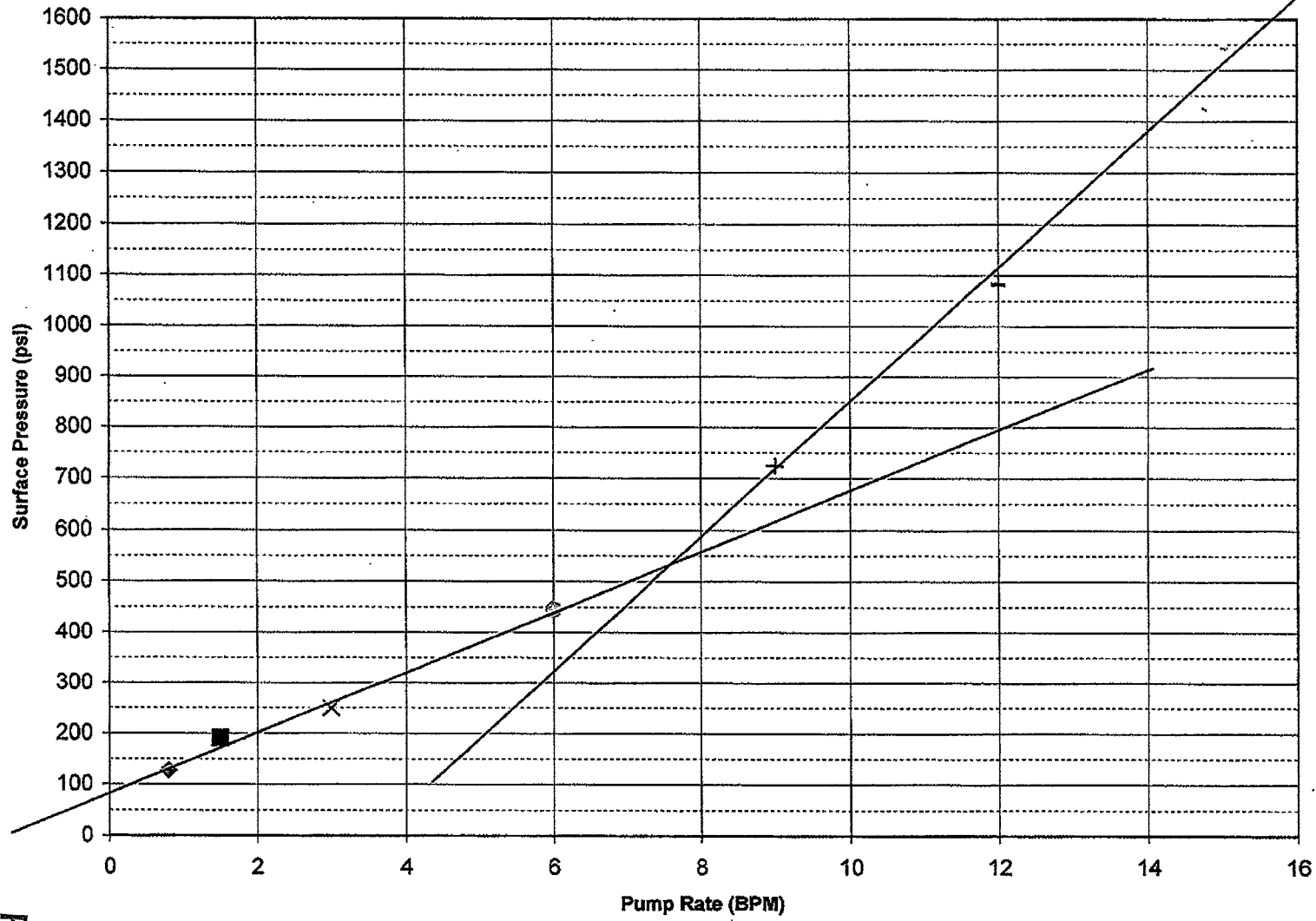


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NBU 921-34H SWD SRT

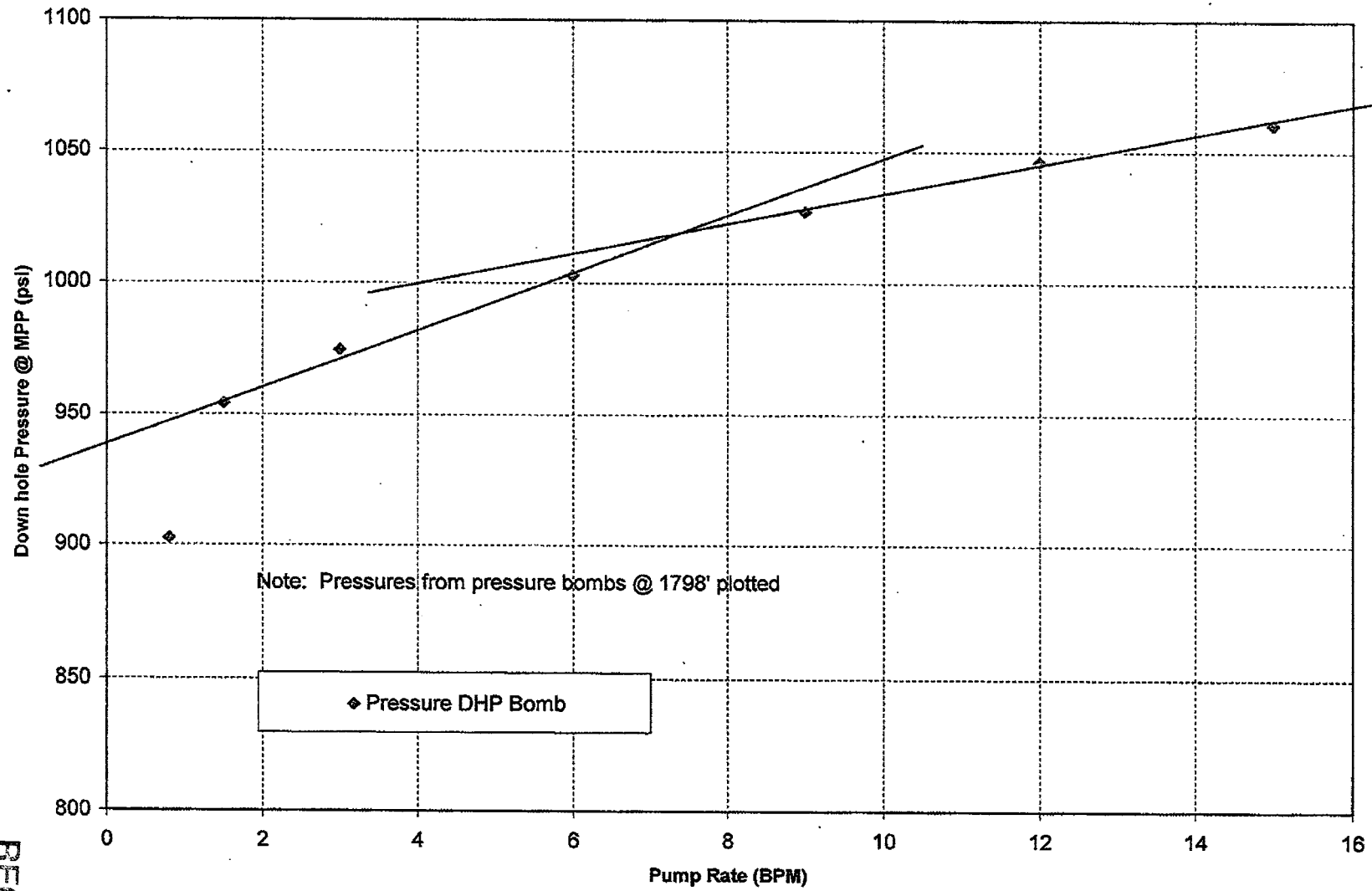


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NBU 921-34H SWD SRT 10/20/2010



Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency Region 8
Underground Injection Control Program
1695 Wynkoop Street, Denver, CO 80202-1129

EPA Witness: NONE Date 10 / 15 / 2010
Test conducted by: BC QUICK TEST
Others present: FRANK WINN, DANIEL DELVAL, SCOTT (B&C QUICK TEST)

Well Name: <u>NBU 921-34H SWD</u>	Type: <u>ER SWD</u>	Status: <u>AC</u>
	<u>TA UC</u>	
Field: <u>Greater Natural Buttes</u>		
Location: _____ Sec: <u>34</u> T <u>9S</u> N/S R <u>21</u> E/W County: <u>UINTAH</u> State: <u>UT</u>		
Operator: <u>Anadarko Petroleum Corporation</u>		
Last MIT: <u>FIRST ONE</u> Maximum Allowable Pressure: <u>300</u> PSIG		

Is this a regularly scheduled test? ☐ Yes ☒ No

Initial test for permit? ☒ Yes ☐ No

Test after well rework? ☐ Yes ☒ No

Well injecting during test? ☐ Yes ☒ No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: _____ 0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	0 psig	psig	psig
End of test pressure	0 psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	500 psig	psig	psig
5 minutes	500 psig	psig	psig
10 minutes	500 psig	psig	psig
15 minutes	500 psig	psig	psig
20 minutes	500 psig	psig	psig
25 minutes	500 psig	psig	psig
30 minutes	500 psig	psig	psig
_____ minutes	Psig	psig	psig
_____ minutes	Psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

RECEIVED

JUN 16 2011

DIV. OF OIL, GAS & MINING

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.: _____

PACKER FLUID WAS PUMPED DOWN CASING. SET PACKER WITH ELEMENT @ 1588'.
HANGER WAS PULLED OUT OF BOWL AND THEN FINISHED FILLING ANNULUS TO DISPLACE
AIR AND FOAM. HOOKED UP PUMP AND PRESSURE TESTED TO 500 PSI AND MONITORED
AND CHARTED.

Signature of Witness: FRANK WINN, DANIEL DELVAL, SCOTT (B&C QUICK TEST) ON CHART

OFFICE USE ONLY - COMPLIANCE FOLLOWUP

Staff _____ Date: ____/____/____

Do you agree with the reported test results? ☐ YES ☐ NO

If not, why?

Possible violation identified? ☐ YES ☐ NO

If YES, what

If YES - followup initiated? ☐ YES

☐ NO - why not?

☐ Data Entry

☐ Compliance Staff

☐ 2nd Data Entry

☐ Hardcopy Filing



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

MAY 30 2012

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2595-7284
RETURN RECEIPT REQUESTED

RECEIVED

JUN 04 2012

DIV. OF OIL, GAS & MINING

Grizz Oleen, Staff EHS Representative
Kerr McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, Utah 84078

Accepted by the
Utah Division of
Oil, Gas and Mining

FOR RECORD ONLY

Re: 95 21E 34
Underground Injection Control (UIC)
Permission to Resume Injection
NBU 921-34H SWD Well
EPA ID# UT21144-07813
API # 43-047-40254
Natural Buttes Oil Field
Uintah County, UT

Dear Mr. Oleen:

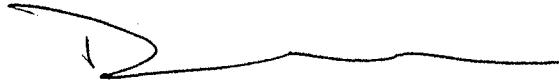
On May 24, 2012, the Environmental Protection Agency (EPA) received information from Kerr McGee Oil & Gas Onshore LP on the above referenced well concerning the workover to and the followup mechanical integrity test (MIT) conducted on May 23, 2012. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations Section 144.51(q)(2) (40 C.F.R. §144.51(q)(2)), permission to resume injection is granted. Under continuous service, the next MIT will be due on or before May 23, 2017.

Pursuant to 40 C.F.R. §144.52(a)(6), if the well is not used for a period of at least two (2) years ("temporary abandonment"), it shall be plugged and abandoned unless EPA is notified and procedures are described to EPA ensuring the well will not endanger underground sources of drinking water ("non-endangerment demonstration") during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject you to formal enforcement by EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Sarah Roberts at (303) 312-7056. Please direct all correspondence to the attention of Sarah Roberts at Mail Code 8ENF-UFO.

Sincerely,



Darcy O'Connor, Acting Director
UIC/FIFRA/OPA Technical Enforcement Programs

cc: Irene Cuch, Jr., Chairman
Uintah & Ouray Business Committee
P.O. Box 190
Fort Duchesne, Utah 84026

Ronald Wopsock, Vice-Chairman
Uintah & Ouray Business Committee
P.O. Box 190
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Phillip Chimburas, Councilman
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Mike Natchees, Environmental
Coordinator
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, Utah 84026

Manuel Myore, Director of Energy,
Minerals and Air Programs
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, Utah 84026

John Rogers
Utah Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UO-1194-AST
1. TYPE OF WELL Water Disposal Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-34H SWD
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2141 FNL 0767 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 34 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047402540000
PHONE NUMBER: 720 929-6111		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/29/2014	<input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	OTHER: Production Enhancement	
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator conducted the following workover/wellbore cleanout on the subject well on 1/29/2014. Please see the attached chronological well history for details. Thank you.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 20, 2014		
NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 2/20/2014	

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-34H SWD

Spud Date: 7/9/2010

Project: UTAH-UINTAH

Site: NBU 921-34H

Rig Name No:

Event: WELL WORK EXPENSE

Start Date: 1/29/2014

End Date: 1/29/2014

Active Datum: RKB @5,043.00usft (above Mean Sea Level)

UWI: NBU 921-34H SWD

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/29/2014	-		MIRU	30	A			MIRU Nabors. Had a JSA and tail gate safety meeting. Pressure tested and primed up equipment. Pumped 3 bbls of fresh water pre-flush, then 2,500 gallons of 15% acid (inhibited to 6 hours with a mutual solvent and scale inhibitor), then flushed with 22 bbls of fresh water to the top of the open hole. RDMOL with Nabors. Let the acid set for 2 hours and then put the well back on injection.